



# ATS2020 – Assessment of Transversal Skills **LEARNING DESIGNS**

February 2018



ATS2020 – Assessment of Transversal Skills LEARNING DESIGNS

A collection of teachers' Learning Designs (from resources.ats2020.eu)

ATS2020 (Assessment of Transversal Skills) Consortium February 2018



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### Edited by:

Anastasia Economou, Cyprus Pedagogical Institute Maria Constantinou, Cyprus Pedagogical Institute Valanto Constantinou, Cyprus Pedagogical Institute

### Design and layout:

Maria Constantinou, Cyprus Pedagogical Institute



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### INTRODUCTION

Education systems need to provide students with the knowledge and skills necessary for living and working in the 21st century, as students grow up in a digital world, with new affordances and challenges. The need for the development and assessment of transversal skills is becoming a challenge for education systems. Assessment of Transversal Skills 2020 (ATS2020) proposes a comprehensive learning model to enhance student transversal, 21st century indispensable skills, within the diverse EU national curricula, including provision of teachers with modern approaches and innovative tools for the assessment of these skills. The ATS2020 learning model extends and fleshes-up existing models, elaborating learning both as process and product. It introduces a web of learning activities leading to learning outcomes, supported by technological and scaffolding tools, extended and redesigned. Evidence of learning is being gathered using an ePortfolio three-level developmental process (repository, workspace and showcase) with an embedded continuous reflection cycle of "My learning". Teachers and students collaborate and make evidence-based decisions while (re)designing instruction and learning. For information on the ATS2020 project please consult the website of the project at <a href="https://ets2020.eu">https://ets2020.eu</a> and the resource portal at <a href="https://resources.ats2020.eu">https://resources.ats2020.eu</a>.

Assessment of Transversal Skills 2020 (ATS2020) is a policy experimentation project co-funded by the Erasmus+ programme (Key Action 3) of the European Union, for the period 1/3/2015 to 1/3/2018. The project consortium consists of 17 partners from 11 EU countries under the coordination of the Cyprus Pedagogical Institute. The ATS2020 project explored the impact of the ATS2020 learning model intervention in schools. During the school year 2016-2017, the ATS2020 learning model was experimented in 10 of the project's participating countries, involving more than 230 schools, 750 teachers and 12.000 students.

To support teachers on the implementation of the ATS2020 learning model, this booklet collects exemplar learning scenarios as a resource for teachers. Teachers implementing the ATS2020 learning model can use the learning scenarios, modify them or take ideas from them. Teachers can gain an insight of the ATS2020 learning and assessment model and how it can be implemented in class by utilizing existing national curricula.

Each teacher along with his/her coach shared a macro-level learning design of their lesson and then proceeded with the development of a micro level analysis. In each developed in micro-level learning design, some general information is provided followed by a detailed description of the activities. In some cases, students' material is also included. The learning scenarios are provided under Creative Commons Attribution-NonCommercial-ShareAlike 4.0 International licence (CC BY-NC-SA 4.0). Please visit <a href="https://creativecommons.org/licenses/by-nc-sa/4.0/">https://creativecommons.org/licenses/by-nc-sa/4.0/</a> to find more information regarding the licence.

In this booklet, 19 completed developed in micro-level learning designs are presented from ATS2020 implementing countries, whereas more than 80 fully developed completed scenarios can be found at the ATS2020 resource portal at <a href="https://resources.ats2020.eu/learning-designs">https://resources.ats2020.eu/learning-designs</a>. Furthermore, 10 macro-level learning designs are presented, which even though not fully developed, can provide ideas for teachers to proceed with further development and implementation. More than 100 macro-level learning scenarios are also available in the ATS2020 resource portal at <a href="https://resources.ats2020.eu/learning-designs">https://resources.ats2020.eu/learning-designs</a>. In the ATS2020 resource portal, learning designs are hosted in different national languages, as developed by teachers. Please note that the learning designs are the work of the teachers who developed them, and no editing was done regarding their content.

It is expected that this online resource portal will be continuously enriched by teachers and trainers contributions. Thus, we invite you to visit the online resource portal for updated LDs and also contribute to its richness with your own learning designs.

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## COMPLETE LEARNING DESIGNS (Micro-level)

### Design and Technology: The technical process / Transport





I. GENERAL DES	Design and Technology: The technical process / Transport
Country	Belgium
Author/Editor	Tom Van den Broeck
School	Het Laerhof
Subject	DESIGN AND TECHNOLOGY
LD Title	The technical process / Transport
Year group	Secondary Education – Second Year (13-14 years)
Duration	10 periods of 50 minutes
Short description	Students are introduced to the technical process. They run true successive steps of the technical process to realize a simple technical system (problem definition, design phase, implementation, initial starting and evaluation). They do research of the different components and subsystems in a technical system. They make choices involving technical systems and think about criteria such as environment, society, price, quality, safety and efficiency. They brainstorm about the problem solution, they search and collect modes of transport, research the evolution of modes of transport, transmissions, materials, switch leg. In addition, they present the evolution of modes of transport, research and discuss the impact of different modes of transport on people, planet and profit, search job vacancies and research of employment. The final product is building a race car which is sufficient enough to transport a marble.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/technology-the-technical-process

#### **Digital Tools** (affordances)

- Padlet (Learning diary)
- Forums/groups/showbie (Communication)
- Google forms (Peer evaluation)

### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Build a race car which is sufficient enough to transport a marble
- Run true successive step of the technical process to realize a simple technical system:
  - o Problem definition : brainstorming
  - Design phase : make sketches (create artwork) – chose the right requirements
  - o Implementation : build the car
  - Initial starting: test the car, his speed, etc....
  - o Evaluation : be critical to improve the car
- Do research of the different components and subsystems in a technical system
   Make choices involving technical systems.
   Thinking about criteria: environment, society, price, quality, safety, efficiency.

### Tasks to develop these competences towards the learning outcomes

- Introduction to the technical process (iBook and iTunes U)
- Brainstorming about the problem solution (in group and then as a class -> Padlet)
- Search and collect (images) mode of transport (In groups)
- Research the evolution of mode of transport, transmissions, materials, switch leg (circuits) (In groups)
- Present the evolution of mode of transport.
- Research and discuss the impact of different mode of transport on people, planet and profit. (in their group and then as a class)
- Search job vacancies
- Research of employment (men-women ; diploma ; driving license ; ...)
- Completion of my learning journal (self-evaluation on a google doc)

### Skills and competences necessary to reach the expected outcomes

#### Targeted:

- Search, collect, retrieve and share information (Information literacy skills)
- Work with others on a common task (collaboration skills)
- Plan, monitor, share their learning (autonomous learning skills)
- Develop criteria and apply them on specific tasks (autonomous learning skills)

#### **Emerging**:

- Work with others an a common task (collaboration – communication)
- Use digital technologies to support their tasks (digital skills)

### Leaning outputs - through all stages (assessment)

- Google forms for student's peer-assessment and feedback.
- Presentation on the evolution of mode of transport.
- Discussion forums with student's comments on different technics, on the impact of different mode of transport, on people, planet and profit.
- Pros and cons for each mode of transportation and technics.
- Student's learning diary

Activity title	Learning goals —  Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)	
	Subject area	Transversal skills	(teacher) students)			Arrangement	(expected)	
Act_1 Introduction to the technical process.  Act_2 Fill in my learning journal on google doc / Mahara	Describe what the technical process is.	Plan their learning (autonomous learning skills)	<ul> <li>1.1 Students attend teachers' iBook and iTunes U course.</li> <li>1.2 Students visit Padlet (technical process)</li> <li>2.1 Students fill in their "My learning journal" what they already know and what they would like to learn identifying their goals. (google doc)</li> <li>Revisit and fill in at their own needs during the whole unit.</li> </ul>	an iBook and iTunesU course. Guidelines to work with iBook's (chapter 1) and	iBook's iTunes U Padlet Google docs / Mahara	Plenary discussion Group work	Student's complete individual my learning journals with identified prior knowledge and learning goals.	
Act_3 Review the curricula of technology		<ul> <li>Search collect retrieve and share information (information literacy learning skills)</li> <li>Use digital technologies to support their tasks (digital skills)</li> </ul>	3.1 students review the curricula of technology  Students read and review the curricula of technology to understand what they have to achieve  3.2 students get the main goals out of the curricula and post them on a Padlet  Students get the main goals out of the curricula and post them on a Padlet to discuss	of the technical	iBook Padlet Google doc Mahara	Individual work	Students learn what they have to achieve	
ACT_4 Fill in my learning journal on google doc / Mahara		Plan their learning (autonomous learning skills)	4.1 students fill in in their "my learning journal" their strategy to achieve their goals.  Revisit and fill in at their own needs during the whole unit		Google docs / Mahara	Individual work	Students complete individual my learning journal with their goals and the strategy to achieve them	

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs
	Subject area	Transversal skills	(teacher/students)			Arrangement	(expected)
ACT_5 Identify the technical process	Identify the technical process	common task (collaboration skills)  Develop criteria and apply them on a specific task	5.1 students identify the technical process by finding 5 solutions  Students' work in groups and view the collected solutions. Each group discuss the solutions of the sufficiency to transport a marble. They post their response as a group and the Padlet wall or in showbie/Mahara  5.2 Students visit other groups' Padlet and comment each group read the solutions of the other groups and provides feedback.  5.3 students agree on a list of solutions and thereby the different steps of the technical process through a teacher lead discussion with the whole class.  Students agree on a list of solutions and thereby the different steps of the technical process in collaboration with the teachers	in the iBook  Create a Padlet wall / group and a Padlet wall to publish a rubric  Monitor and support	Showbie Mahara groups Padlet	Group work Plenary discussion	A classroom accepted rubric with steps of the technical process  Each group's list of solutions  Discussion with students' communication and collaboration on identifying the technical process.
Act_6 Search and collect images of mode of transport	Refer to different mode of transport	Work with others on a common task (collaboration skills)	6.1 students go online and search for images of different mode of transport.  Students work in group and search online resources and collect images of modes of transport. The teacher provides key trends in transportation mode.  6.2 Students visit their Padlet / group on showbie / Mahara and create a collection of their images.  Students upload their pictures on their wall	showbie class / Mahara groups Monitor and support students activity	Padlet walls / showbie class / Mahara groups	Group work	Upload movies/images of transportation modes

Activity title	Learnir	ning goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)
Act_7 Research the different mode of transport	Subject area  Research the different transportation modes	Transversal skills	7.1 Students view images and movies and give feedback on the different transportation modes. Referring to safety and environment.  Students see images and movies in the iBook  Students give feedback on mode of transport referring safety and	Create an instruction in the iBook Create a Padlet wall / Mahara group / showbie class Create a google form Monitor and support students activity Lead the discussion with the whole class.	Padlet Showbie/Mahara Google forms	Arrangement  Group work Plenary discussion	(expected)  Group list pro and contra of transportation modes.
Act_8 Search and collect images of the evolution of transport	Refer to evolution of transport	Work with others on a common task (collaboration skills) Use digital technologies to support their tasks	Students agree on a list of pro and contra of transportation modes in collaboration with the teacher.  8.1 students go online and search for images of evolution of transport.  Students work in group and search online resources and collect images of evolution of transport.  8.2 Students visit their Padlet / group on showbie / Mahara and create a collection of their images. They have to place the	showbie class / Mahara groups Monitor and support students activity	Padlet walls / showbie class / Mahara groups	Group work	Upload images of the evolution of transport

Activity title		ning goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)
	Subject area	Transversal skills	(teacher/students)			Arrangement	(expected)
		(digital skills)	pictures in chronological order on a poster.  Students upload their pictures in a folder 8.3 students comment the evolution by technic and the advantages of the evolution.  Students comment the technology and the advantages of the evolution on the poster.				
Act_9 Peer evaluation and feedback of students artwork		and use peer and teacher feedback for self-evaluation (autonomous learning skills)		artwork  Read and review group's feedback  Monitor and support students feedback	Showbie / Mahara / Padlet	Groups work Plenary discussion	Groups pages with their posters  Discussion forums with peer assessment and feedback on the artwork  Students' chronological view of the evolution of transportation mode.
Act_10 Create an artwork integrating the technical process	Create an artwork integrating the technical process: Students build a race car which is sufficient	(Creativity skills)	<ul> <li>10.1 Students plan on the artwork they want to create, find the necessary material and work on it.</li> <li>Students make a sketch</li> <li>Students chose the right equipment</li> <li>Students build the car</li> </ul>		Mixed media IPad Camera Technical materials	Group work Individual work	Students build a race car which is sufficient enough to transport a marble

Activity title		ing goals – g Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)	
	Subject area Transversal skills		(teacher/students)			Arrangement	(expected)	
	enough to transport a marble		- Students will test the car Students create an artwork in group with the instruction to integrate the technical process. Students and the group will refer to the rubric the created. Students edit their strategies	Review students "my learning journal"	Mahara / Padlet / showbie			
Act_11 Peer evaluation and feedback of students artwork		and use peer and teacher feedback for self-evaluation (autonomous learning skills)  Use digital	11.1 students upload a movie of their test on Mahara / google / showbie students film their artwork and their test and upload it to Mahara / google / showbie  11.2 Students visit the work of their peers and they give feedback on a google doc / Mahara forum / showbie  Students comment on each other's creations and teacher assigns each member of the group to assess his/her groups' artwork referring to the artwork.  11.3 students edit their work based on the feedback given and based on their own self reflections.  Students read their peers and teachers comment and edit their cars.  Each group / student write a final journal reflecting on their collaboration with their peers and what and how they have learnt	artwork in showbie /forum Read and review groups feedback Monitor and support student edit process Read and review students "my	Google docs /	Group/individual work	Group pages with their creations  Discussion forum with students peer assessment and feedback on their car.  Students group artwork  Students individual my learning journal with self-assessment and reflection entries	
Act_12 Identify job ads about technical process and transportation	ads for men and		12.1 students identify the job ads for men and women on a Padlet or Mahara  Students work in groups and view the collected job ads. Each group discuss the job ad and if it is accessible for men and or	Create a Padlet wall / group and a Padlet wall to publish a rubric	Mahara groups Padlet	Group work Plenary discussion	A classroom accepted rubric on job ads  Discussion with students communication and	

Activity title	Learnir	ing goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
Act_13 Create		apply them on a specific task (autonomous learning skills) Use digital	women. They post their response as a group advertisement the Padlet wall or in showbie/Mahara  12.2 Students visit other groups Padlet and comment  Each group read the notes of the other groups and provides feedback.  12.3 students agree on a list of job ads for men and or women through a teacher lead discussion with the whole class.  Students agree on a list of job ads for men and or women collaboration with the teachers  13.1 Students plan on the artwork they	students' activity Create a class in showbie or group in Mahara	Mixed media	Individual work	collaboration on identifying a job in the transportation mode
an artwork to present themselves	artwork making a movie to promote themselves for a job.		want to create, find the necessary material and work on it.  - Students promote themselves (mind map – Padlet)  Students open explain everything and make a film  Students create an artwork individual with the job ads in remind. Students and the group will refer to the rubric the created. Students use their promotion mind-map	and feedback  Monitor and support students creative work	IPad : explain everything Camera Mind-map Mahara / Padlet / showbie		to present themselves
14_ Peer evaluation			14.1 students upload their movie on Mahara / google / showbie students present their artwork on Mahara / google / showbie	Review students artwork in showbie /forum Read and review groups feedback	Mahara pages – forum Google docs / forms showbie	individual work	Group pages with their creations  Discussion forum with students peer assessment and feedback on their movie.

Activity title		ning goals – ng Outcomes	Tasks	Teacher's role	Tools	Methodology – Class	Learning Outputs
	Subject area	Transversal skills	(teacher/students)			Arrangement	(expected)
		Use digital technologies to support their tasks (digital skills)		student edit process Read and review			Students group artwork Students individual my learning journal with self-assessment and reflection entries
Act_15 Complete learning journal		Plan, monitor share their learning (autonomous learning skills)	15.1 fill in their learning journal, their reflection on their work and what kind of evidence they have for their learning achievements  Revisit and fill in at their own needs during the whole unit.	journal and coach	Mahara / Padlet / showbie : iTunes U	Individual work	Students' individual learning journal with their self-assessment and description of evidence to support their learning achievements
Act_16 Design and development of individual ePortfolios on technical process of transportation mode	Create an ePortfolio of their learning of the technical process	Plan, monitor share their learning (autonomous learning skills)	16.1 Students design and develop their individual ePortfolio  16.2 Students share their individual ePortfolio and give and receive feedback	Review students' ePortfolio	Mahara	Individual work	Students individual ePortfolios on their learning on the technical process

### Mathematics: Addition of natural numbers





	Mathematics: Addition of natural numbers
I. GENERAL DESC	CRIPTION
Country	Croatia
Author/Editor	Tomislava Jukić
School	Primary School Retfala
Subject	MATHEMATICS
LD Title	Addition of natural numbers
Year group	6th grade (11-12 year olds)
Duration	3x45'
Short description	Students log in to Class Notebook where some mathematical assignemnts have been enetered, requiring from them to revise previous learning content (positive and negative numbers, adding zero). Teacher moderates a class discussion where students explain why they completed assignements in a certain way. The rules for addition of natural numbers are formulated through this discussion.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/addition
Learning Design in Croatian	https://resources.ats2020.eu/resource-details/LEDE/addition

### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

#### Students will be able to

- Add natural numbers
- Apply the rules for the addition of natural numbers in various contexts

### Tasks to develop these competences towards the learning outcomes

- Students enter Office365 (Classroom Notebook) and complete the assignments (online or on paper)
- Results are discussed and written on the board, explained if neccessary
- Rules for addition of natural numbers are formulated through instructor led discussion
- Rules are applied in assignments from different contexts

### Leaning outputs – through all stages (assessment)

- Students contribution in Class Notbook (if any)
- Students paper notebooks

#### Digital Tools (affordances)

- Office 365 (OneNote)

### Skills and competences necessary to reach the expected outcomes

### Targeted:

 Autonomous learning (engagement, autonomy, self-evaluation of the learning process)

#### **Emerging:**

- Digital literacy (using digital technology in dissemination of and working on assignments)
- Communication and collaboration(interaction)

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology - Class	Learning Outputs	Assessment tool
	Subject area	Transversal skills				Arrangement	(expected)	
Activity 1: Addition of natural numbers in Classroom Notebook	To be able to add natural numbers	_		Assisting with passwords Reminding students what they already know about natural numbers	Office 365	Individual work on the computer or in the paper notebook	assignments in	Verbal feedback from the teacher
Activity 2: Discussion about the results of Activity 1	To be able to add natural numbers	_	Students talk about the result of each assignment  My Learning Journal: Attempt to answer what they know and what they need to learn	Teacher moderates a discussion		Whole class discussion		
Activity 3		Autonomous learning – developing a strategy for learning	·	Teacher supervises individual work and motivates students to make analogy,		Individual work		
Activity 4		Autonomous learning – evaluating strategy	Group discussion — an attempt to formulate rules for addition of different natural numbers and in a variety of contexts  My Learning Journal: Attempt to evaluate own learning			Whole class discussion	My learning – answers to all 5 questions	

### CROATIA

### English: Musical Instruments





L CENEDAL DEC	English: Musical Instruments
I. GENERAL DESC	CRIPTION
Country	Croatia
Author/Editor	Sandra Prpić
School	Primary School Brezovica
Subject	ENGLISH
LD Title	Musical Instruments
Year group	7th grade (13-14 years old)
Duration	3x45'
Short description	In the first part of this lesson teacher moderated a class discussion (in English) to establish how much students already know about musical instruments. They were then expected to work in groups in order to develop group presentations about musical instruments. They were instructed to search for certain types of information in school and at home. They presented their group work and discussed about this experience, particularly because they had a public presentation for international audience. Writing the article for school magazine had to be left for later occasion and mostly homework.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/Musical Instruments
Learning design in Croatian	https://resources.ats2020.eu/resource-details/LEDE/musicalInstruments

### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

(according to the national curriculum and formulated from the students' perspective)

- To enumerate types of instruments
- To show results in PPT
- To expand the vocabulary
- To publish an article in the school magazine

### Tasks to develop these competences towards the learning outcomes

- Introduction, what types of instruments students know about
- To research history and occurrence of instruments on the Internet and to find out about the history of instruments
- To find out about traditional Croatian and world instruments and about unusual instruments
- Quizz solving
- Questionnaire how many students from the class play instruments

#### **Digital Tools** (affordances)

- Google
- WhatsApp
- Power point
- Kahoot

### Skills and competences necessary to reach the expected outcomes

### Targeted:

Communication and collaboration

#### **Emerging**:

- Information literacy
- Digital literacy

### Leaning outputs – through all stages (assessment)

- List of instruments
- PowerPoint presentations of group work
- My Learning
- Article published in the school newspaper

Activity title		Learning goals – earning Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment tool
	Subject area	Transversal skills	(teacher/students)			Arrangement	(expected)	
Activity 1: Introduction	about musical instruments	collaboration: Listen and express	Discussion  My Learning Journal: To answer the first and the second question in My learning template	Supervising and asking questions, led the discussion	One Note	Discussion, Individual	My learning	My learning Self-evaluation and teacher
Activity 2: Research	To find out new instruments and to learn new expressions in English	_	Research on Croatian and international and some unusual musical instruments and make notes  My Learning Journal: To answer the third and fourth questions in My learning template	Supervising	One Note	Individual		My learning Self-evaluation and teacher
Activity 3:  Making PowerPoint and presentation			Making PowerPoint presentation for the homework in the groups; Oral presentation in front of a class and discussion	motivating the		PPT WhatsApp	Verbal feedback	Students
Activity 4: Kahoot	Repetition of what students learned	Interaction and collaboration	Solving the quiz in the group work	Conducting the quiz	Kahoot	Group work	Quiz result	Points Kahoot (Teacher)
Activity 5: Discuss and debate	To exercise communication in English	Discuss and debate	Discussion about making presentation  My Learning Journal: To answer the fifth question in My learning template	Moderate the discussion		Individual		Verbal feedback (Students, Teacher)

### Computer Science: Hardware, software and user related problems





	Computer Science: Hardware, software and user related problems
I. GENERAL DESC	CRIPTION
Country	Cyprus
Author/Editor	Pantelis Nikola
School	Lefkara Gymnasium
Subject	COMPUTER SCIENCE
LD Title	Hardware, software and user related problems
Year group	Gymnasium, C' class
Duration	4X40'
Short description	Students in this unit will be working collaboratively to search information online in order to prepare rules for the correct body position while using the computer, they will be preparing an informative digital poster on hardware problems and will be creating a Mahara page on problems computer users may encounter.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/computer-science-computerRelatedProblems
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/user-problems

### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

Students should be able to identify problems regarding the computer system. In particular they should be able to:

- Describe briefly hardware problems, in particular: environmental factors, power cuts, natural wear, computational needs
- Describe briefly software problems, in particular: data loss, malware, compatibility problems, new computing needs, user errors
- Describe briefly user-related problems, in particular: physical conditions, decrease of productivity, addiction, loss of personal data
- Explain the role of ergonomics in preventing physical conditions and other user problems and discuss and apply specific rules.
- Suggest ways of addressing and preventing aforementioned problems.

### Tasks to develop these competences towards the learning outcomes

- Complete "My learning journal" fields
- Complete book worksheets
- Search online, in books and notebooks for information that will help them complete the following activities
- Create a poster on a hardware or software problem
- Write rules for the correct body position while using a computer
- In groups, students create a Mahara page on a computer users' problem
- Create ePortfolio

#### Leaning outputs – through all stages (assessment)

- Completed worksheets
- Posters (in a design software program, Word or PowerPoint)
- Mahara page with students' assignments on computer users' problems
- Students' comments on a Mahara page on wrong position on the computer (based on an image)
- Mahara pages on problems computer users may confront

#### Digital Tools (affordances)

- Internet access
- Mahara group

### Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### Information literacy:

- 1. Locate, evaluate and use information from a variety of sources and media.
- 2. Process information and construct new knowledge.

#### Creativity:

3. Innovative and creative use of tools and resources.

#### Communication and Collaboration:

- 4. Participate in groups
- 5. Interact with classmates and teacher
- 6. Communicate information effectively

#### **Emerging**

#### Autonomous learning:

- 7. Recognise basic needs for learning based on pre-existing knowledge
- 8. Set targets to achieve and develop strategy for their achievement

\*The learning goals and learning outcomes for transversal skills in the following table are presented by the number indicated in the list of the Macro-level.

Activity title	Learning go Learning Out		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment	
	Subject area	Transversal skills *				Arrangement	(expected)		
1. My Learning journal	· Identify previous knowledge	Skills: 7,8	- Students complete in their "My Learning journal" the fields previous knowledge, goals, strategies	-Gives guidelines to students to fill their learning journals	<ul> <li>Students         learning         journals in         Mahara</li> <li>Guidelines         for filling         students'         learning         journals in         Mahara</li> </ul>	- Individual work on computers (Mahara)	- Students learning journals in Mahara with completed in fields of previous knowledge, goals, strategies	- Teacher reads students' learning journals	
2. Hardware and software problems		Skills: 1, 2, 3, 5, 6	- Teacher presents information about hardware problems and a whole class discussion follows - Students complete worksheets in the students' book - Teacher presents information about software problems and a whole class discussion follows - Students complete the relevant worksheets in the students' book - Students discuss worksheets' answers and correct them - Students search online for information on a hardware or	-Presents information on hardware and software problems -Guides students to complete their worksheets and correct them -Helps students create their posters and upload them to Mahara	<ul> <li>Teacher presentation</li> <li>Students' workbook</li> <li>Mahara page</li> <li>(Students choose the software they are going to use to create their poster)</li> </ul>	<ul> <li>Teacher presentation</li> <li>Completion of worksheets</li> <li>Individual work</li> </ul>	- Completed worksheets - Posters	Peer assessment Students comment each other's posters	

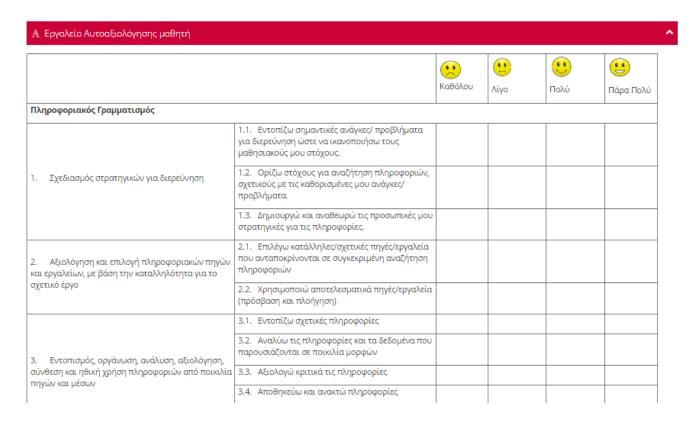
Subject area  Transversal skills *  Software problem and create digital posters  - Students upload their posters in Mahara - using the 'comments' section)  3. Computer users' problems problems posters in material posters in particular: physical conditions, decrease of productivity, addiction, loss of personal data and suggest ways of facing  Students are asked to read information from their books on physical conditions of personal data and suggest ways of facing  Students upload their posters in Mahara a using the 'comments' section)  - Prepares Mahara page with instructions of proparticular: physical conditions, decrease of productivity, addiction, loss of personal data and suggest ways of facing  Arrangement  Arrangement  - Mahara - using the 'comments' section)  - Prepares Mahara page with instructions of proparticular: photo of someone in front of a computer with bad body posture. Students are asked to read information from their books on physical conditions associated with the use of computers and comment the photograph.  - Group work Malara pages of computers and comment the photograph.  - Group work in the work of sudents through their work of sudents through their work of proparticular: photograph.  - Students work in small groups to present, in Mahara, one of	Activity title	Tasks (teacher/students)		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment
digital posters - Students upload their posters in Mahara - Students comment on each other's posters (in Mahara – using the 'comments' section)  3. Computer users' problems - Describe briefly Skills: 1, 2, user-related 3, 4, 5, 6 problems, in particular: physical conditions, decrease of productivity, addiction, loss of personal data and suggest ways of facing computer in the postoric prosents and comment the prosents, in Mahara, one of computer in Mahara, one of computer in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents, in Mahara, one of computers and comment the prosents are commented to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to computer with bad body posture. Students are asked to compute a computer with bad body posture. Students are asked to compute a computer with bad body posture. Students are asked to compute a computer with bad body posture. Students are asked to compute a computer with bad body posture. Students are asked to compute a computer with bad body with instructions.  - Individual computer with bad body with instructions.  -	,			,		1000		(expected)	
and preventing them  Explain the role of ergonomics in preventing physical conditions and other user problems and discuss and apply specific  the problems that computer users may encounter (physical conditions, decrease in productivity, addiction, loss of personal data)  - Students search online for more information.  - Students complete a quiz on the unit.	users'	ents whara ents of the fents of some ents of ents	3, 4, 5, 6	digital posters  - Students upload their posters in Mahara  - Students comment on each other's posters (in Mahara – using the 'comments' section)  - Students see in Mahara a photo of someone in front of a computer with bad body posture. Students are asked to read information from their books on physical conditions associated with the use of computers and comment the person's posture in the photograph.  - Students work in small groups to present, in Mahara, one of the problems that computer users may encounter (physical conditions, decrease in productivity, addiction, loss of personal data)  - Students search online for more information.	with instructions -Prepares groups' Mahara pages -Guides students	for the	work		

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment	
,,	Subject area	Transversal skills *				Arrangement	(expected)		
4. Completion of My Learning journal and creation of ePortfolio		Skills: 3, 6	- Students complete their My Learning journals  - Students create their ePortfolio for the unit  - Students complete a self- evaluation tool on their information literacy skills (in their ePortfolio)	guides the students	- Mahara	- Individual work	ePortfolio for every student	Teacher Teacher provides formative feedback on students' work Provides feedback on their ePortfolios Students' self- assessment Students complete a self-evaluation on their information literacy skills	

### IV. Material, resources and students' artefacts

### Student self-assessment tool on their information literacy skills

The tool is part of the ATS2020 Formative Self-Assessment Scaffolding Tool of Students' Competences and Skills (<a href="http://resources.ats2020.eu/resource-details/SCTS/assessment-student">http://resources.ats2020.eu/resource-details/SCTS/assessment-student</a>). The tool was included in the students' ePortfolios.



### Exemplar ePortfolio of the unit "Hardware, software and user related problems"

ePortfolio ΠΛΗΡΟΦΟΡΙΚΗ - Προβλήματα που σχετίζονται με το υλικό, λογισμικό,

χρήστη

Student's profile

Student's exercises

Student's

"My Learning journal"

Επάγγελμα: Μαθητής Υπηρεσία/Επιχείρηση: Γυμνάσιο-Λύκειο Λευκάρων Όνομα: Matheos

Επώνυμο: Christoforou ομαδική εργασία

από Matheos Christoforou

Μπορεί να γίνει με υποκλοπή δεδομένων.

- Ευαίσθητα θεωρούμε τα δεδομένα που η απώλεια τους ή η μη εξουσιωδοτημένη πρόσβαση σε αυτά μπορεί να μας προκαλέσει σημαντικά προβλήματα τόσο σε προσωπικό όσο και σε επαγγελματικό επίπεδο.
- Μπορούμε να προστατευτούμε με ισχυρούς κωδικούς
- Να μην δίνουμε ευαίσθητα δεδομένα στο email
- Να μην ανοίγουμε ιστοσελίδες με ακατάλληλο υλικό

ΒΡΑΧΥΚΥΚΛΩΜΑ ΛΟΓΩ ΣΚΟΝΗΣ Ματθαίος Χριστοφόρου Γ΄

ℰ Επεξεργασία σελίδας 
Επεξεργασία σελίδας

Student's poster (Short circuit due to dust)

Σχόλια (2) Add comment % Details

http://mahara.ats2020.eu/view/view.php?id=9958

Η στάση του συγκεκριμένου ανθρώπου στην πιο πάνω εικόνα είναι λανθασμένη, για τους εξής λόγους:

- \* Οι αγκώνες του δεν βρίσκονται σε στάση 90-120
- \* Η οθόνη δεν βρίσκεται στην ίδια ευθεία με τα μάτια
- \* Η πλάτη του δεν είναι σε ευθεία (δεν διατηρεί την φυσιολονική της καμπυλότητα)
- \* Δεν υπάρχει στήριξη στα χέρια

Ο πιο πάνω λανθασμένος τρόπος καθίσματος μπορεί

- α) Πόνους στη πλάτη
- β) Σύνδρομο καρπιαίου σωλήνα
- γ) Πονοκέφαλους
- δ) Αυχενικό σύνδρομο

Σγόλια (0)

Προηγούμενη γνώση

1) Να μαγκώνει και να είναι πιο αργό το computer

Πάρα Καθόλου Λίγο Πολύ Πολύ Πληροφοριακός Γραμματισμός 1.1. Εντοπίζω σημαντικές ανάγκες/ προβλήματα για διερεύνηση ώστε να ικανοποιήσω τους μαθησιακούς μου στόγους. 1. Σχεδιασμός στρατηγικών για 1.2. Ορίζω στόχους για διερεύνηση αναζήτηση πληροφοριών. σχετικούς με τις καθορισμένες μου ανάγκες/ προβλήματα. 1.3. Δημιουργώ και αναθεωρώ τις προσωπικές μου στρατηγικές για τις πληροφορίες. 2.1. Επιλέγω κατάλληλες/ σχετικές πηγές/εργαλεία που 2. Αξιολόγηση και επιλογή ανταποκοίνονται σε πληροφοριακών πηνών και συγκεκριμένη αναζήτηση εργαλείων, με βάση την πληροφοριών αταλληλότητα για το σχετικό 2.2. Χρησιμοποιώ αποτελεσματικά πηγές/εργαλεία (πρόσβαση και πλοήνηση 3.1. Εντοπίζω σχετικές πληροφορίες

Student's selfassessment

### **CYPRUS**

### Geography: Introduction to Europe





	Geography: Introduction to Europe
I. GENERAL DES	CRIPTION
Country	Cyprus
Author/Editor	Raouna Maria / Hadzittofi Panayiota
School	Lympia Primary School
Subject	GEOGRAPHY
LD Title	Introduction to Europe
Year group	Primary, 5th Grade
Duration	5 X 80'
Short description	This unit aims to introduce students to the unit Europe and teach them about its basic geographic and political features, its natural and climatic characteristics, the basic parameters for its industrial, social and cultural development as well as learn the basic facts of the EU (historical background - establishment, member countries) and the relation between Cyprus and the EU.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/introduction_europe
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/europe-intro

#### **Digital Tools** (affordances)

- Internet access
- Mahara
- My Learning (Journals)

### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Students learn about the basic geographic (e.g. Europe's position, boarders, mountain ranges, seas, rivers) and political features (e.g. population, religions, names of countries / capitals, hour) of Europe.
- Students learn about Europe's natural and climatic characteristics.
- Students learn about the basic parameters for its industrial, social and cultural development.

### Tasks to develop these competences towards the learning outcomes

- Complete worksheets about the unit Europe.
- Search in groups about the geographic, political and cultural features of Europe.
- Create electronic questionnaires about Europe (Google Forms).
- Create a blog for the unit Europe.
- Create «Climate Games» about Europe.
- Create verbal weather forecast content about Europe's areas.
- Create a weather forecaster avatar.
- Participate in group discussions on the forum.
- Participate in an online debate.
- Create a presentation about Europe's development.

#### **Leaning outputs – through all stages (assessment)**

- Google Form questionnaire about Europe.
- Blog for the unit Europe.
- «Climate Games» about Europe.
- Weather forecaster avatar.
- Presentation about Europe's development.
- Self-evaluation.
- Feedback Assessment from teacher.
- Peer evaluation.
- «My Learning journal» for the unit «Introduction to Europe».
- Students' individual ePortfolio on the unit «Introduction to Europe».

### Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### **Collaboration and Communication**

- 1. Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments.
- 2. Communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- 3. Contribute to project teams to produce original works or solve problems.

#### **Creativity and Innovation**

- Innovating and creatively using tools and resources.
- 2. Create original works as a means of expression.

#### **Information Literacy**

- 1. Plan strategies to guide inquiry.
- 2. Evaluate and select information sources and tools based on the appropriateness to specific tasks.
- 3. Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.
- 4. Process information and construct new knowledge.

#### **Emerging**

- 1. Use digital technologies to support their learning (digital skills).
- 2. Autonomous learning.
- 3. Critical thinking.

Activity title	Learnir	ing goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
LESSON 1 Activity 1: Lesson Introduction	Subject area	Transversal skills	Task 1.1: Teacher informs students about the targeted goals of the unit. More specifically, teacher informs students that the aim of the unit is to introduce them to Europe, so that students:  - Can be taught the basic geographic (position, boarders, mountain ranges, seas, rivers) and political features (population, religions, names of countries/capitals, hour) of Europe.  - Learn the natural and climatic	<ul> <li>Prepares the lesson (instructions, presentations, Google Forms) in Mahara.</li> <li>Informs students about the goals of the unit.</li> <li>Guides students to complete My Learning journal.</li> </ul>	- Mahara - My Learning journal	- Individual work	(expected)  - Students complete the first three tabs in "My Learning journal".	
			characteristics of Europe.  Learn the basic parameters of its industrial, social and cultural development.  Task 1.2:  Teacher asks students to go to their My Learning journal and note down in the tab "Prior knowledge" what they already know about Europe. Next, teacher asks students to note down in the tab "Setting goals" what they don't know about Europe, and in the tab "Strategies" how they would like to					

Activity title	Learnir	ing goals – g Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment
	Subject area	Transversal skills				Arrangement	(expected)	
			work for this unit; i.e. individually, in pairs or in groups.					
Activity 2: Let's Begin	Subject area goals  Students identify and learn Europe's cultural features.		Task 2.1: Teacher asks students to watch a video in Mahara titled "European Capitals" and post on the forum which countries and landmarks they have identified or distinguished from the video, and share amongst them any possible personal memories from some of those cities / capitals as well as any feelings that the video might have inspired, even its music.	<ul> <li>Informs students about the task they have to do.</li> <li>Guides students.</li> <li>Facilitates the discussion.</li> </ul>	-Mahara -Video "European Capitals" -Forum (discussion)	-Individual work -Group discussion	- Write on the forum European countries and landmarks, and share their own personal memories and feelings from some of those cities / capitals.	
Activity 3: Let's get to know Europe better!		collaborate, and publish with peers, experts, or others employing a variety of tools and environments.  Students communicate information and ideas effectively to multiple audiences using a variety of media and formats.  Students contribute to project teams to	Task 3.1: Teacher asks students to watch a presentation about Europe and collaborate in groups. More specifically, teacher asks each team's members to focus on the corresponding pages that have been assigned to each team, as shown below. Group 1: Pages 1-13 Group 2: Pages 14-21 Group 3: Pages 22-52 Group 4: Pages 53-end Teacher asks each team to write 10 questions (multiple-choice or short answers) for their peers based on the pages they have studied. The questions will be created on Google Forms.	<ul> <li>Informs students about the task they have to do.</li> <li>Guides students.</li> <li>Facilitates the procedure, whenever is necessary.</li> </ul>	-Mahara -Presentation about Europe - Google Forms - Self- evaluation questionnaire	Group work (collaboration)	- Each team prepares a Google Form with multiplechoice questions	evaluation of questionnair

Activity title		ing goals – g Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
Activity 4: Blog	- Students learn the natural and climatic characteristic of Europe Students learn the basic parameters for its industrial, social and cultural development.	works or solve problems.	Group 1 Group 2 Group 3 Group 4 When the questionnaires have been completed, teacher asks students to answer the other teams' questions.  Task 4.1: Teacher informs that one of the upcoming activities is the creation of a blog about Europe, since the upcoming Geography lessons of the 5 <sup>th</sup> Grade will be about the European countries. Teacher informs that the posts on the main page will be a summary / main parts of a lesson, and each team will have their own page on the blog so that they can post their digital projects, which they will do in various lessons.	- Informs students about the blog they will create and refers them to <a href="http://europelympiaclass5.blogspot.com.cy/">http://europelympiaclass5.blogspot.com.cy/</a> to see the blog.	- Mahara - Blog	- Individual work	- Students browse the blog, which they will create in this unit.	
Activity 5: Introductory Game			Task 5.1: Teacher informs students that on the lesson's page in Mahara there is a game regarding the location of European countries, and that they can play and practise with it whenever they want, either individually or in groups.	- Informs students about the game.	- Mahara - Game	- Individual or group activity in their free time.	- Students will locate the European countries through the game.	

Activity title	Learnii	ning goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment
Activity 6: Lesson Conclusion	Subject area	Transversal skills	Task 6.1: Teacher asks students to go to My Learning journal and add their team's questionnaire (link or	- Informs students about the entry in My Learning journal and their self-	- Mahara - My Learning journal - Self-	Arrangement	- Students develop the skill to assess their ability to	Self- evaluation of communica-
			embed code) in the tab "Evidence".  Next, teacher asks students to go to Drive and fill in their own self- evaluation grid.  Then, teacher asks them to go to My Learning journal and add the link of their self-evaluation grid in Drive in the tab "Self-evaluation".	evaluation of their ability to collaborate and communicate.	evaluation questionnaire in Drive		collaborate and communicate efficiently.	tion and collabora- tion skills (see learning design appendix)
LESSON 2 Activity 1: Europe's climate	Subject area goals To be taught the basic geographic features (position, boarders, mountain ranges, seas, rivers). Learn the natural and climatic characteristics of Europe.	communicate information and ideas effectively to multiple audiences	Task 1.1: Teacher asks students to watch a video in Mahara titled "Europe's climate", and after they have studied Europe's geomorphological map: http://egeografia.eduportal.gr/maps/mapeurope 1/mapeurope1.html, to post on the forum their conclusions regarding their observations related to Europe's landform.	<ul> <li>Prepares the lesson (instructions, presentations, video, geomorphological map) in Mahara.</li> <li>Informs students about the task they have to do.</li> <li>Guides the students.</li> <li>Facilitates the discussion.</li> </ul>	<ul> <li>Mahara</li> <li>Introductory Video</li> <li>Europe's geomorphol ogical map http://e- geografia.ed uportal.gr/ maps/map_ europe_1/m ap_europe1. html</li> <li>Forum (discussion)</li> </ul>	- Individual work - Group discussion	- Write on the forum observations about the continent's landform.	
Activity 2: In pairs!	Subject area goals To be taught the basic geographic features	Communication - Students interact, collaborate, and publish with peers,	Task 2.1: Teacher asks students to read carefully pages 95, 96 and 97 from their Student's book. After they have read them, teacher asks students to work in	<ul> <li>Informs students         about the task they         have to do.</li> <li>Guides students.</li> </ul>	<ul><li>Mahara</li><li>Student's</li><li>Book</li><li>Digital tool for creating games</li></ul>	Group work (collaboration in pairs)	«Climate Game –	Peer evaluation (students establish their own criteria

Activity title		ing goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	•	of tools and environments.  - Students contribute to project teams to produce original works or solve problems.  Creativity & Innovation and creatively using tools and resources.  - Students create original works as a	pairs and create an image quiz with questions at http://www.purposegames.co m/, using a geomorphological map of Europe, e.g. https://drive.google.com/file/d/0B0v83a5JoZBPMVRxc1o0d05 CSEE/view?usp=sharing.  More specifically, teacher asks students to add 10 questions to their game which will be relevant with the content of the pages, i.e. in relation with the climate in different areas of Europe.  Task 2.2:  Next, teacher asks students to share their game on the forum and play with the games their peers have created.  Task 2.3:  After students have established evaluation criteria (posted on the forum), teacher asks them to give feedback to their peers for any necessary changes /improvements. Finally, after students have done the necessary changes to their game, teacher asks them to upload it on the blog http://europelympiaclass5.blogspot.com.cy/ for their unit on the corresponding page, "Climate Games — Europe".	- Facilitates the procedure, whenever is necessary.	http://www .purposega mes.com/ Geomorphol ogical maps https://driv e.google.co m/file/d/0B 0v83a5JoZB PMVRxc100 d05CSEE/vie w?usp=shari ng. Forum (peer assessment) Blog http:// europelympi aclass5.blog spot.com.cy /		game on the forum.  - Write on the forum evaluation criteria for	created). Peer feedback.

Activity title	Learning goals – Learning Outcomes Subject area Transversal skills		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
Activity 3: Evidence	Subject area	Transversal skills	Task 3.1: Teacher asks students to go to My Learning journal and add the link to their game in the tab "Evidence". Next, teacher asks students to go in Drive and fill in their own self- evaluation grid.	<ul> <li>Informs students         about the entry in         My Learning journal.</li> <li>Informs about the         completion of their         self-evaluation         regarding their ability</li> </ul>	- Mahara - My Learning journal - Self- evaluation questionnai	-	Students develop the ability to assess their skills to collaborate and communicate efficiently, and	and communicati on skills. Self-
			Then, teacher asks students to go to My Learning journal and add the link of their self-evaluation grid in Drive in the tab "Self-evaluation".	to collaborate and communicate, and their ability to create and innovate.	re in Drive		create original works, using tools and sources.	evaluation of creativity and innovation skills
LESSON 3 Activity 1: Lesson Introduction			Task 1.1: Teacher asks students to go to My Learning journal and fill in the tab "Prior knowledge" what they already know about weather forecasts, why they are useful, what kind of information they provide, where we can find or watch them, etc.	<ul> <li>Prepares the lesson (instructions, presentations) in Mahara.</li> <li>Guides students to complete My Learning journal.</li> </ul>	- Mahara - My Learning journal -	- Individual work	- Students complete the first two tabs in My Learning journal.	
			Next, teacher asks students to fill in the tab "Setting goals" what they don't know and would like to learn about news programmes.					
Activity 2: Extreme weather in Europe	Subject area goals Students learn the natural and climatic characteristics of Europe.		Task 2.1: Teacher asks students to watch a video in Mahara titled "Extreme Weather in Europe" and discuss in class about Europe's weather.	<ul><li>Informs students about the task they have to do.</li><li>Facilitates the discussion.</li></ul>	- Mahara - Video – "Extreme Weather in Europe"	- Group discussion	Develop verbally their opinions and thoughts about the weather and climatic conditions in Europe.	

Activity title		ing goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
Activity 3:	Subject area	Information Literacy	Task 3.1:	- Informs students	- Mahara	Group work	Each team	Peer
Group Action!			Teacher tells students that they	about the task they	- Folder for			evaluation
	Students learn	•	will become weather forecasters!	have to do.	each team	(00.12.00.00.1)	required	(students
	the natural and	inquiry.	More specifically, teacher tells	- Guides students.	on Google		information for	,
	climatic		students that after they have been	- Facilitates the	Drive		the climatic	content of
	characteristics		separated in teams, each team will	procedure, whenever	Group		context of the	
	of Europe.		be responsible for a different part	is necessary.	A: Eastern		area they will	
	'		of Europe (Eastern, Western,	- Takes on the role of a	Europe		have.	have
			North, South) and will create a	news director.	Group		Group	created).
		to specific tasks.	weather forecast according to the		B: Western		A: Eastern	
		- Students locate,	information they will find on the		Europe		Europe	
		organise, analyse,	weather.		Group C: North		Group	
		evaluate, synthesize	Group A: Eastern Europe		Europe		B: Western	
		and ethically use	Group B: Western Europe		Group D: South		Europe	
		information from a	Group C: North Europe		Europe		Group	
		variety of sources	Group D: South Europe		- Internet		C: North	
		and media.	In particular, teacher instructs that		- VOKI		Europe	
		<ul> <li>Students process</li> </ul>	each team will initially have to find		Programme		Group	
		information and	information about the following:		- Forum for		D: South	
		construct new	(a) Information about last week's		the		Europe	
		knowledge.	temperature, sunshine and		presentation			
			rainfall.		of a weather		- Each team	
		<u>Communication</u>	(b) Other information about the		forecaster.		prepares	
			weather, e.g. humidity, wind		- Blog		their verbal	
		· ·	speed.		http://euro		forecast in	
			(c) Compare temperatures		<u>pelympiacla</u>		the team's	
			according to the area's climate		ss5.blogspot		folder on	
			(connection with previous tasks).		.com.cy/ on		Google	
			And then, students will present to		"Weatherfor		Drive.	
		environments.	teacher, who will take on the role		ecasters-		- Create a	
		- Students	of the news director, their team's		weather		weather	
		communicate	goal, their ideas and plan of action		forecasts-		forecaster	
			(i.e. what they will do to achieve		Vokl".		avatar on	
			their goal, which means they will				VOKI.	
		multiple audiences	use to find the information and					

Activity title	ning goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	media and formats.  - Students contribute to project teams to produce original works or solve problems.  - Creativity & Innovation  - Students innovating and creatively using tools and resources.  - Students create original works as a					- Share on the forum, but also on the blog "Weatherf orecasts-Voki", the weather forecaster they have made.	
Activity 4: Teacher Assessment		Task 4.1: Teacher tells students that she will proceed to the assessment of their activity regarding the content of the forecast, the vocabulary, the syntax, the spelling, the creativity, the digital skills and the effective collaboration. The assessment will	- Informs students about the assessment procedure.	- Mahara - Assessment on Google Sheets - Class' Google Drive		on the subject and the	on level of knowledge

Activity title	Learnir	ing goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
LESSON 4	Subject area	Transversal skills	be available in the class' personal Google Drive and they can share it in their evidence.	Drawayas the Jassan	Mahara	-	of transversal skills.	
LESSON 4 Activity 1: Lesson Introduction	Subject area goals Students learn the basic parameters of industrial development.		Task 1.1: Teacher asks students to observe in Mahara the map Map of Europe's industrial areas and report five countries where some of Europe's best industrial areas are located.  Next, teacher asks students to observe on the same map areas in Europe where there are coal mines and report if they can find any relation between the coal mines and the industries in the same area.  Task 1.2: Teacher asks students to go to My Learning journal and fill in the tab "Prior knowledge" what they already know about the two specific questions, i.e. to mention:  1. Five European countries where the best industrial areas of Europe are located today.  2. If they can spot any relation between the coal mines and the industries in the same area, in Europe.	-Prepares the lesson (instructions, presentations) in Mahara.  -Facilitates the discussionGuides students to complete My Learning journal.	-Mahara -Map of Europe's industrial areas -My Learning journal	-Group discussion -Individual work	-Students develop personal opinions and thoughts about Europe's industrial developmentStudents complete the first two tabs in My Learning journal.	
Activity 2: Internet Debate	Subject area goals Students learn the basic	Communication - Students interact,	Task 2.1: Teacher asks students to write in their notebook three reasons in favour of an industrial installation	<ul> <li>Informs students about the task they have to do.</li> </ul>	<ul><li>Mahara</li><li>Students' personal notebooks</li></ul>	- Group work (collaboratio n)	Students interact, collaborate and share	Google Apps Self- assessment

Activity title		ning goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	parameters of	publish with peers,	in their area and three reasons	- Facilitates the	- Forum	- Individual	efficiently with	tools for the
	industrial	' ' ' '	against it so that they can prepare	discussion and the	(forum)	work (self-	peers, via the	debate.
	development.		for an Internet debate on	procedure.	(discussion)	evaluation)	forum,	
			the <b>forum</b> . Teacher informs	•	- `	,	opinions in	
		environments.	students that for their preparation				favour of the	
		- Students	they can consult the Internet and				industrial	
		communicate	find various sources.				installation in	
		information and	Task 2.2:				their area.	
		ideas effectively to	Then, teacher asks students to split					
		multiple audiences	into two teams.					
		using a variety of	Teacher informs students that they					
		media and formats.	will participate in an Internet					
		Information Literacy	debate on the forum, in which they					
		- Students plan	have to collate their arguments in					
		strategies to guide	favour or against an industrial					
		inquiry.	installation in their area, i.e.					
		- Students evaluate	Lympia.					
		and select	Teacher specifies that one team					
			will be in favour of the industrial					
			installation in their area and the					
			other team will be against the					
		to specific tasks.	industrial installation in their area.					
		•	Finally, teacher stresses that					
			during the debate students can					
			mention the links of the pages they					
		I	have used to support their					
			arguments (e.g. a page about					
		•	industrial emissions).					
		and media.	<u>Task 2.3:</u>					
		·	After the completion of the					
			Internet debate, teacher informs					
			students that based on some					
		knowledge.	criteria, such as:					
			-The collaboration of my team was					
			effective,					

Activity title		ning goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
			-We were clear and have presented our arguments properly, -Our arguments were well-documented (e.g. supported from websites, sources, etc.), -We respectfully stated our opinion, they have to vote which team they think did better.  Task 2.4: Teacher asks students, in their free time, to go to My Learning journal and add in the tab "Evidence" the file from Google Drive.  Next, teacher tells students that they have to go to Drive and complete their self-evaluation grid.  Finally, teacher asks them to go to My Learning journal and in the tab "Self-evaluation" attach the link of their self-evaluation grid in Drive.					
Activity 3: Europe's development	Subject area goals Students learn the basic parameters of Europe's social and cultural development.	collaborate, and publish with peers, experts, or others employing a variety of tools and environments.  Students communicate information and	Task 3.1: Teacher tells students that after they have studied pages 98-99 from their Student's book and have watched the presentation on "Colonialism in Europe", to find reasons that have contributed in Europe's development and in pairs create a short presentation of 4 slides on Google Slides.  Task 3.2: Next, teacher informs students that they have to send their	<ul> <li>Informs students about the task they have to do.</li> <li>Guides students.</li> <li>Facilitates the procedure, whenever is necessary.</li> </ul>	<ul> <li>Mahara</li> <li>Presentatio</li> <li>n –</li> <li>Colonialism</li> <li>in Europe</li> <li>Google</li> <li>Slides</li> <li>E-mail</li> </ul>	- Individual work - Group work (collaborati on)	Each team to find the required information that contribute to Europe's development Each team to prepare 4 slides regarding	- Teacher's feedback

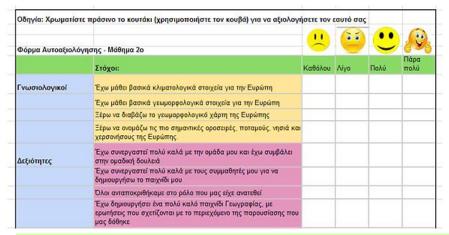
Activity title	ning goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	multiple audiences using a variety of media and formats.  - Students contribute to project teams to produce original works or solve problems.  Creativity & Innovating and creatively using tools and resources.  - Students create original works as a	Teacher mentions that she will be the e-mail's main recipient (to). However, teacher informs that they have to send a copy of the e-mail (cc) to the trainer and another copy to another recipient, whose address must not be visible (bcc).				Europe's development.	
LESSON 5 Activity 1: My ePortfolio	Emerging skills Autonomous Learning - Students evaluate the process and the results, and they provide evidence for their accomplishments.	Task 1.1: Teacher asks students to create their ePortfolios. More specifically, teacher asks students to create some tabs in their ePortfolio: - Profile: present themselves (i.e. name, surname, photo, interests) "My Learning" Journal: check if their journal is up to date and	<ul> <li>Prepares the lesson (instructions) in Mahara.</li> <li>Guides students to create their "ePortfolio" for Introduction to Europe.</li> </ul>	<ul> <li>Mahara</li> <li>"ePortfolio</li> <li>Introduction to Europe"</li> </ul>	- Individual work	-Students evaluate the process and the results of the lessons, and they provide evidence for their accomplishme nts.	Final _ ePortfolio Assessment Scaffolding Tool for teacher Final _ Skills Assessment Scaffolding

Activity title		ing goals – ng Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment
	Subject area	Transversal skills				Arrangement	(expected)	
			that it appears in the ePortfolio (if not, press edit in the ePortfolio, and from "General" add "Learning Entry").  - Experience: describe their experience (How did I work?, What do I think I learned?, What could I have done better?, What would I change?, Which of my assignments did I like more and why?).  - 1st lesson- description (work				Exemplar e- Portfolio	Tool for teacher
			<ul> <li>and citation - link and picture).</li> <li>2<sup>nd</sup> lesson- description (work and citation - link and picture).</li> <li>3<sup>rd</sup> lesson- description (work and citation - link and picture).</li> <li>4<sup>th</sup> lesson- description (work and citation - link and picture).</li> <li>Evaluation of Transversal Skills:         <ul> <li>Skills that I have developed in this unit (see your selfevaluations and complete skills</li> </ul> </li> </ul>					
			but also cite the links).  Task 1.2:  Teacher asks students to share their ePortfolio with her once they have completed it.					

### IV. Material, resources and students' artefacts

#### Formative assessment scaffolding tool - Lesson 2:

It is suggested that the tool is available through the online learning environment they are using (Mahara, Office356) in its electronic version. <u>Self-evaluation of collaboration and communication skills</u> / Self-evaluation of creativity and



#### Formative assessment scaffolding tool - Lesson 4:

It is suggested that the tool is available through the online learning environment they are using (Mahara, Office356) in its electronic version.

#### **Google Apps - Self-assessment tools for the debate.**

#### Κριτήρια αυτοαξιολόγησης Debate

Έχετε θέσει σωστά και τεκμηριωμένα τα επιχειρήματά σας (πηγές κλπ.);

• ΟΜΑΔΑ Α- ΥΠΕΡ
• ΟΜΑΔΑ Β-ΚΑΤΑ

Έχετε θέσει σωστά και τεκμηριωμένα τα επιχειρήματά σας (πηγές κλπ.);

• ΟΜΑΔΑ Α- ΥΠΕΡ
• ΟΜΑΔΑ Β-ΚΑΤΑ

Έχετε επιχειρηματολογήσει με αλληλοσεβασμό;

• ΟΜΑΔΑ Α- ΥΠΕΡ
• ΟΜΑΔΑ Β- ΚΑΤΑ

Έχετε συνεργαστεί με την ομάδα σας σε ικανοποιητικό βαθμό;

• ΟΜΑΔΑ Α- ΥΠΕΡ
• ΟΜΑΔΑ Β-ΚΑΤΑ

Έχετε θέσει ξεκάθαρα τα επιχειρήματά σας;

• ΟΜΑΔΑ Α-ΥΠΕΡ
• ΟΜΑΔΑ Α-ΥΠΕΡ

#### Formative assessment scaffolding tool - Lesson 3:

<u>Class teacher assessment on level of knowledge and skills level innovation</u> skills.



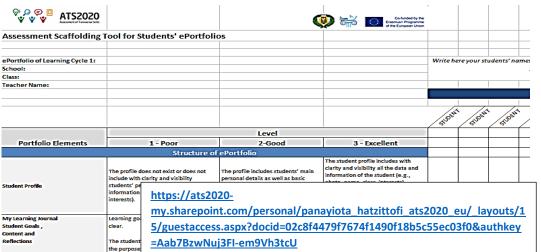
- Sheet content correctness
- Appropriateness
- Vocabulary
- Syntax

- Spelling
- Creativity
- Collaboration grade
- Digital skills

#### Formative assessment scaffolding tool - Lesson 5:

It is suggested that the tool is available through the online learning environment they are using (Mahara, Office356) in its electronic version.

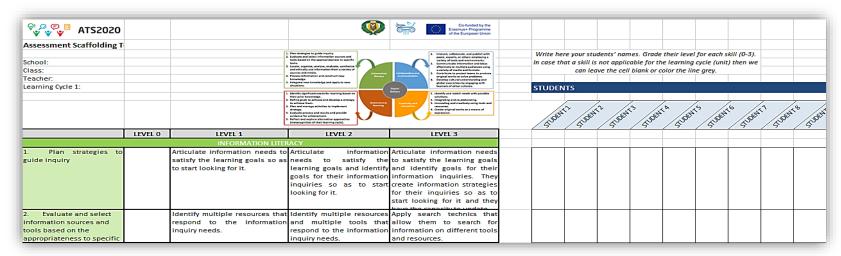
#### Assessment Scaffolding Tool for Students' ePortfolios



#### Assessment scaffolding tool - Lesson 5:

It is suggested that the tool is available through the online learning environment they are using (Mahara, Office356) in its electronic version.

#### Assessment Scaffolding Tool of Students' Competences and Skills for Teachers



https://ats2020-my.sharepoint.com/personal/panayiota hatzittofi ats2020 eu/ layouts/15/guestaccess.aspx?docid=04fd5116405764518a6a58a16fda4983b&authkey=Acj2QSZqSGKqcrwVq5 S128

#### Exemplar ePortfolio - Lesson 5:



### **CYPRUS**

## Modern Greek: We are all equal, we are all different





Source https://www.youtube.com/watch?v=QjtCmHoJPwk

	Modern Greek: We are all equal, we are all different
I. GENERAL DESC	RIPTION
Country	Cyprus
Author/Editor	Christos Rarras
School	Engomi Gymnasium- Kyriakos Neocleous
Subject	MODERN GREEK
LD Title	We are all equal, we are all different
Year group	3rd grade of Secondary Education (14-15 years old)
Duration	6 periods
Short description	The present learning design focuses on the investigation of the characteristics of Racist Speech. By examining a variety of informational sources corresponding to different text types (e.g. advertisement, anecdotes, journalistic texts), students explore how the racist ideology is disseminated through speech. By utilizing scientific arguments students deconstruct the underlying perceptions of language figures, and break down the lame foundations of racist ideology. In the end, they state their personal opinion by writing up an argumentative text.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/all-equal-all-different
Learning design in Greek	https://resources.ats2020.eu/resource-details/LEDE/oloi isoi oloi diaforetikoi

### II. Learning Design Macro-level

#### **Digital Tools** (affordances)

- Internet
- Office 365 OneNote
- http://www.greeklanguage.gr/greekLang/index.html
- Blog

# Learning goals - expected leaning outcomes

#### **Body of knowledge (National curriculum)**

- Become sensitized, problematize, and express their position by providing arguments on one of the most critical issues of contemporary societies: Equality and respect for diversity
- To try to define a concept and thereafter through an inductive process to understand the way in which we define concepts
- To get to know the potential and use of electronic tools (Dictionaries, text bodies) so that they can improve their digital and Information Literacy competences and become

# Tasks to develop these competences towards the learning outcomes

- Students investigate in what ways the racist ideology uses speech in order to be disseminated. More specifically, students collaborate in order to discover new vocabulary, which figures of speech (metaphors, similis, analogues etc.) are used to promote the racist ideology
- Students utilize the arguments offered by Science (Biology, Sociology, Genetics) to prove the lame foundation of Racist Speech, so that they can break it down.
- Students publicize their findings in a blog that they will create, in order to contribute as active citizens to the combat of racism
- Students complete assessment sheets
- Students create their ePortfolios for the unit

#### Leaning outputs – through all stages (assessment)

- Racism diagram completed (forms of racism)
- Definitions of concepts relating to racism
- Criteria for recognizing Racist Speech
- Racist Speech: Vocabulary, figures of speech, style
- References to the origins of the sources they have gathered for issue under study
- Evaluation of the material: criteria of suitability and credibility
- Argumentative essay for breaking down Racist Speech
- Learning diaries My Learning Journal
- Completed formative assessment sheets
- Blogs
- ePortfolios

# Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### **Information Literacy**

- Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.
- Process information and construct new knowledge.
- Integrate new knowledge and apply to new situations.

#### **Collaboration and Communication**

 Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments.

#### **Emerging**

#### Creativity and Innovation

- Integrate and re-elaborate.

#### **Collaboration and Communication**

- Communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- Develop cultural understanding and global awareness by engaging with learners of other cultures

#### **Autonomous Learning**

Autonomous Learning Skills

## III. Learning Design Micro-level

Activity title		g goals – Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment tool
	Subject area	Transversal Skills	(country)			Arrangement	(expected)	355.
Activity 1	– Students	Collaboration and	– Students comment on	-The teacher introduces	– Video (See	Video	– Racism:	Fill in the
Screening of a	problematize	<u>Communication</u>		students to the issue of	<u>Appendices</u>	Screening in	Definition	diagram-
video	about different	Develop cultural	main character of the	Racism beginning from	<ul> <li>Electronic</li> </ul>	the plenary	– Forms of	different forms
animation	· ·	understanding and	•	the actual term. He/She,	Dictionary in	Ctudonte work	Racism	of racism.
about racism	behaviour which,	_	•	then, refers to different	the Portal for	Students work	– "Prejudice",	Fill in the table
and its various	while they may		additionally they try to		Greek	in pairs to define Racism	"Stereotypes":	with the terms
forms.		learners of other	define the forms in which		Language	define Racisin	Provide	that need to be
	•	cultures.	it is manifested.	students to the organizer	www.greek-	Students work	definition and	defined
Activity 2	may actually be		- Students define with the		language	in pairs for	examples for	
Work with	problematic.	<u>Literacy</u>	•	textbook where the terms	– Text corpora	providing a		Context of the
electronic	– Students try to		dictionary two other	* *	in the Portal	definition on	well as for the	
dictionary and	· ·	select information	significant terms which	"Prejudice" are included. He/She asks them to		Racism		document in
body texts in the Portal for	to understand how we define a	sources and tools based on the	http://ebooks.edu.gr/mo	relate these terms to the	Language	Research		which different
the Greek		appropriateness to	dules/ebook/show.php/	concept of Racism.	www.greek-	different forms		quotations are included
Language	we break it down	• • •	DSGYM-	-He/She also refers	language.gr	of racism on	textbook, part	
http://www.gr	into different	specific tasks.	C107/675/4493,20226/	students to p. 56 of the	Diagram	the internet	C2.	
eek-		Locate, organise,	of Greek Language text	· ·	Forms of Racism.	(individual	C2.	
language.gr/gr	(forms of racism)	analyse, evaluate,	book: "Prejudice" and	-	- See	work)		
eekLang/mode	_See Modern	synthesize and	"Stereotypes". They also		Materials-	,		
rn greek/tools	Greek Lanauaae	etnically use	explore the terms, which	_	Resources-			
/corpora/index	3 <sup>rd</sup> Grade, Unit 6,	illiorillation iroill a	are provided in p.56 of	He/She asks students to	Tools, 5 in			
.html	p. 110	variety of sources	their textbook, so that	research these terms in	Appendices			
		and media	they get to familiarize	the Text Corpora of the				
			with as many terms as	Portal for the Greek				
			possible See Appendices	Language				
				See <u>Appendices</u> and				
				describe the contexts in				
				which these terms are				
				used.				

Activity title	Learning (	g goals – Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment tool
	Subject area	Transversal Skills				Arrangement	(expected)	
Activity 3		<u>Autonomous</u>	•		, ,			My Learning
Completion of		<u>Learning</u>	fields 1-3 of the My	•	Journal.	work	the first 3 fields	
the My		Identify significant	Learning Journal.	J			,	Available at:
Learning		needs for learning	Available at:	·	https://resourc		_	https://resourc
Journal (Points		based on their	https://resources.ats2	counterarguments: How	,		Journal	es.ats2020.eu/
1-3) for the		prior knowledge.	020.eu/resource-	is racist ideology	resource-			resource-
topic of the		Define goals to	details/ADM/learning	conveyed in speech and how can it be opposed? At				details/ADM/le
Learning Cycle "Racist speech		achieve and	<u>journal_en</u>	the same time, he/she	arning_journal en			arning_journal
and		develop a strategy		asks students to complete	<u>en</u>			en
counterargume		to achieve them.		the My Learning Journal				
nts: How is		D		(Fields 1-3).				
racist ideology		Plan and manage activities to		(110103 1 3)1				
conveyed in		activities to implement						
speech and		strategy.						
how can it be		Strategy.						
opposed?"								
Activity 4	Students make	<u>Autonomous</u>	- Students discuss based	- The teacher oversees	<ul> <li>Internet</li> </ul>	- Group	Characteristics	Worksheet:
Discuss and	assumptions	<u>Learning</u>	on potential prior	the work of students	<ul> <li>Text book</li> </ul>	work	of Racist	Criteria of
write down the	regarding the main	Identify significant	knowledge about the	but he/she does not		<ul> <li>Discussion</li> </ul>	Speech	Racist Speech.
main	characteristics of	needs for learning	characteristics of racist	intervene. He/She		in the 4-		See
characteristics	Racist Speech, and		speech	allows students to put		member		<u>Appendices</u> in
of Racist		prior knowledge.		forward their own		student		Materials-
Speech.	criteria referring to	Define goals to		assumptions.		groups		Resources-
	the vocabulary, the	achieve and						Tools
	style, as well as the	develop a strategy						
	thematic of Racist	to achieve them.						
	Speech	to dome to them.						

Activity title		g goals – Outcomes Transversal Skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
Activity 5: Students research materials to verify/ test the assumptions that they put forward.	Students provide evidence that they have been sensitized in relation to all aspects of racism.	Information Literacy – Evaluate and select information sources and tools based on the	/sm/310/c gym neolliniki glossa_vilio_mathiti.pdf/	students' work, and provides help when needed (searching	<ul> <li>Internet</li> <li>School textbook</li> </ul>	Work on the computers	A variety of materials containing Racist Speech, political	Materials- Resources- Tools in
Activity 6 Students study the material and try to extract the main characteristics of Racist Speech – they evaluate its potential impact on viewers and listeners.	elements based	- Information Literacy Process information and construct new knowledge.	materials that they have	material and drawing		Students work in groups; they discuss, and work out solutions	characteristics of Racist Speech	

Activity title	Learning	g goals – Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment tool
	Subject area	Transversal Skills				Arrangement	(expected)	
Activity 7 Completion of the My Learning Journal (field 4-Evidence).		Autonomous Learning Evaluate process and results and provide evidence for achievement.			My Learning Journal (Materials- Resources- Tools,6) in Appendices	Individual work	materials  – (Written texts, audios, images, advertisements etc.)	My Learning Journal (field 4)
counterargume	Students write an argumentative text with which they break down the argumentation of racism.	<u>Innovation</u> Integrate and re-	from various sources; they	The teacher provides guidance when needed	Internet	Individual work	text	Tool: Structure of the argumentative text. See <i>Materials-</i> <i>Resources- Tools,</i> 10 in <u>Appendices</u> ,
Activity 9 Students create blogs to which they upload their material.		Interaction and Communication with other students, teachers or people with the same interests in the electronic environment	in order to create their blogs, and upload their material.		Internet	Group work	Blog	Evaluate attractiveness and effectiveness of the blog (how many likes did the blog receive?)
Activity 10 Putting together an ePortfolio	Presentation of students' work in ePortfolios.		Students develop their ePortfolios for the Learning Cycle.	<ul> <li>The teacher acts as a facilitator. He/She refers students to supportive materials (See Materials-Resources- Tools Materials, 11 in Appendices</li> <li>He/She assesses students' ePortfolios</li> </ul>	-Office365 OneNote -Tool Instructions for the development of ePortfolio -See Material Resources- Tools, 11 in Appendices	Individual work in OneNote	Students' ePortfolios	Assessment Scaffolding Tool for Students' ePortfolios Available at: https://resources.a ts2020.eu/resourc e- details/SCTS/asses smentToolePortfolio

## IV. Material, resources and students' artefacts

	ACTIVITY	MATERIALS-RESOURCES- TOOLS				
1	Introduction to the issues of Racism and Diversity	<ul> <li>Screening of an animation in which the issue of Racism is raised titled The glasses of Diversity         https://www.youtube.com/watch?v=laW8e9uNDsM     </li> </ul>				
2	Understanding of the definition of a concept	<ul> <li>Modern Greek textbook 3<sup>rd</sup> Grade Secondary School, p. 56 Available at:         <ul> <li>http://archeia.moec.gov.cy/sm/310/c gym neolliniki glossa vilio mathiti.pdf</li> </ul> </li> <li>Text Corpora <ul> <li>http://www.greek-language.gr/greekLang/modern_greek/tools/corpora/index.html</li> </ul> </li> <li>Forms of Racism Diagram. Available at <ul> <li>https://ats2020-</li> <li>my.sharepoint.com/personal/nicolina markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a</li> <li>b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</li> </ul> </li> </ul>				
3	Investigation of concepts about equality and diversity	Modern Greek textbook 3 <sup>rd</sup> Grade Secondary School, p. 56 Available at: <a href="http://archeia.moec.gov.cy/sm/310/c">http://archeia.moec.gov.cy/sm/310/c</a> gym neolliniki glossa vilio mathiti.pdf				
4	Researching dictionary entries to define related concepts	Text Corpora <a href="http://www.greek-language.gr/greekLang/modern_greek/tools/corpora/index.html">http://www.greek-language.gr/greekLang/modern_greek/tools/lexica/triantafyllides/index.html</a> <a href="http://www.greek-language.gr/greekLang/modern_greek/tools/lexica/triantafyllides/index.html">http://www.greek-language.gr/greekLang/modern_greek/tools/lexica/triantafyllides/index.html</a>				
5	Discussion about the main characteristic of Racist Speech	<ul> <li>Worksheet: Criteria for detecting Racist Speech Available at: <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a <a href="https://ats2020-my.sharepoint.com/personal/nicolina markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg">https://ats2020-my.sharepoint.com/personal/nicolina markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg</a> under the unit Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</li> </ul>				
6	Monitoring of the Learning Process	<ul> <li>My Learning Journal for this particular unit. Tool available at <a href="https://resources.ats2020.eu/resource-details/ADM/learning">https://resources.ats2020.eu/resource-details/ADM/learning</a> journal en</li> </ul>				
7	Text to be used as a starting point for researching informational sources on the internet	<ul> <li>Modern Greek textbook 3<sup>rd</sup> Grade Secondary School, text 5, p.53 Available at: <a href="http://archeia.moec.gov.cy/sm/310/c_gym_neolliniki_glossa_vilio_mathiti.pdf">http://archeia.moec.gov.cy/sm/310/c_gym_neolliniki_glossa_vilio_mathiti.pdf</a>\</li> </ul>				
8	Formative Assessment tool for Collaboration and Communication skills	<ul> <li>Formative Assessment tool for Collaboration and Communication skills Available at: <a href="https://ats2020-my.sharepoint.com/personal/nicolina-markidou-ats2020-eu/layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a-b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg">https://ats2020-my.sharepoint.com/personal/nicolina-markidou-ats2020-eu/layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4a-b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg</a> under the unit Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</li> </ul>				

9	Formative Assessment tool for the Information Literacy skills	<ul> <li>Formative Assessment tool for the Information Literacy skills Available at: <a href="https://ats20">https://ats20</a></li> <li>my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c</li> <li>b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετο</li> </ul>	: <u>4a</u>
10	Assessment tool for teacher	<ul> <li>Structure of an argumentative text. Available at: <a href="https://ats20">https://ats20</a></li> <li>my.sharepoint.com/personal/nicolina markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c</li> <li>b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετι</li> </ul>	:4 <u>a</u>
11	Instructions for the creation of an ePortfolio	<ul> <li>Instructions for the creation of an ePortfolio Available at: <a href="https://ats20">https://ats20</a></li> <li>my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c</li> <li>b69de70549e4f49959&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg under We are all equal, we are all different</li> </ul>	

#### **Formative Assessment Tool 1**

Formative Assessment tool for Collaboration and Communication skills Available at: <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί

#### **Formative Assessment Tool 2**

Formative Assessment tool for the Information Literacy skills. Available at: <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-ixz9my2nDg under Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί

#### Formative Assessment Tool 3

Assessment Scaffolding Tool for students' ePortfolios https://resources.ats2020.eu/resource-details/SCTS/assessmentToolePortfolio

#### A student's ePortfolio

https://ats2020-

 $\underline{my.sharepoint.com/personal/christos\_rarras\_ats2020\_eu/\_layouts/15/WopiFrame.aspx?folderid=12a1b65d00a4842a496ec29a8018bb33a&authkey=AbAqwAtHtbeuwQSrVw20swl&action=view$ 

## Greek Language: Mysteries – Science Fiction – "Time Machine"





	Greek Language: Mysteries – Science Fiction – "Time Machine"
I. GENERAL DESC	CRIPTION
Country	Cyprus
Author/Editor	Raouna Maria / Hadjittofi Panayiota
School	Lympia Primary School
Subject	GREEK LANGUAGE
LD Title	Unit 10: Mysteries – Science Fiction – "Time Machine"
Year group	Primary Education, Fifth Grade
Duration	4x80'
Short description	A journey in time has begun! This unit aims to let students travel in time with their fictional "Time Machine". The main objective of the unit is for students, via an imaginary adventure, to develop the ability to communicate effectively (spoken and written), understand and produce descriptive texts, and use future and hypothetical sentences. More specifically, within this unit the students will have the opportunity to describe their own fictional time machine based on the material they will be given and the sources/images they will find themselves; to describe the changes that need to be made during the transition from one period to another (e.g. clothes, speech); to investigate the preferences of the school's students regarding the period they would like to travel to; to describe a "Time travel" adventure which will culminate in France, which they have learnt through Geography lessons (criteria for the era, utilisation of the time machine's description, etc.).
Hosted (URL)	Lesson in Mahara: <a href="http://mahara.ats2020.eu/group/view.php?id=540">http://mahara.ats2020.eu/group/view.php?id=540</a> Learning Design in English: <a href="https://resources.ats2020.eu/resource-details/LEDE/time_machine">https://resources.ats2020.eu/resource-details/LEDE/time_machine</a>
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/time machine el

### II. Learning Design Macro-level

# Learning goals - expected leaning outcomes

#### **Body of knowledge (National curriculum)**

- Describe their own fictional time machine, based on the given material and with sources/images they will find themselves.
- Describe the changes that need to be made during the transition from one period to another (e.g. clothes, speech).
- Do a research regarding the students' preferences for the period they would like to travel to, listing the information for each period which will arise from a survey.
- Describe a 'Time travel' adventure which culminates in France, which they have learnt through Geography lessons (criteria for the era, utilisation of the time machine's description, etc.).
- Use future tenses and hypothetical sentences.

#### **Digital Tools** (affordances)

- Internet access
- Mahara
- My Learning (Journals)

## Tasks to develop these competences towards the learning outcomes

- Complete "My Learning" Journal, stating their prior knowledge about time machines and time travel, their goals and strategy for the unit, and the evidence of their assignments and evaluations (self-evaluation / teacher's evaluation / peer evaluation).
- Study the given handout and visual material about time machines and time travel.
- Search the Internet in groups and find relative sources (pictures, articles, etc.) about time machines (characteristics, form, etc.).
- Utilise sources and in pairs create written text/description of how they imagine their own "Time Machine".
- Share copies of their material (e.g. time machine description, questionnaire, etc.) via emails to multiple recipients using the 3 fields: to, cc, bcc.
- Create group research/bibliography overview for the production of written text regarding the time periods (the time of the dinosaurs, Ancient Greece, Middle Ages – Byzantium, Greek Revolution).
- Create electronic questionnaire (Google Forms) to research the students' preferences regarding the period they would choose to time travel.
- Collect and analyse on a chart and share their research data.
- Create ideogram on MindMaple for the "Time Travel" text they will create.
- Create a fictional story based on the original description of their time machine and the ideogram they have created

#### Leaning outputs - through all stages (assessment)

Production of written text/description of their own "Time Machine". Written text /bibliography overview about the time periods (the time of the dinosaurs, Ancient Greece, Middle Ages – Byzantium, Greek Revolution).

- Digital questionnaire (Google Form).
- Research results / quantitative data.
- Ideogram on MindMaple.
- Fictional story/written text "Time Travel".
- Self-evaluation. Feedback Assessment from teacher.
- Peer evaluation Assessment from classmates.
- "My Learning" Journal for the unit "Time Machine".
- ePortfolio for the unit "Time Machine".

## Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### **Collaboration and Communication**

- Interact, collaborate and publish with peers, experts or others, employing a variety of tools and environments.
- Communicate information and ideas effectively to multiple audiences, using a variety of media and formats.
- Contribute to group projects to produce original works or solve problems.

#### Information Literacy

- Plan strategies to guide inquiry.
- Evaluate and select information sources and tools based on the appropriateness to specific tasks.
- Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.
- Process information and construct new knowledge.

#### Creativity and Innovation

- Innovating and creatively using tools and resources.
- Create original works as a means of expression.

#### **Emerging**

#### **Autonomous Learning**

- Recognise basic learning needs based on pre-existing knowledge.
- Define goals to pursue and develop strategy to achieve them.
- Evaluate the process and results, and provide evidence of achievements.

#### Digital Skills

#### **Critical Thinking**

## III. Learning Design Micro-level

Activity	Learning goa	ls - outcomes	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom	Expected learning	Assessment tool
	Subject area	Transversal skills	(oracens) reasons.			Arrangement	outputs	1001
LESSON 1: Travelling with the Time Machine Introduction to the unit's goals			<ul> <li>Unit goals</li> <li>Teacher informs students about the unit's targeted goals, according to which students have to:</li> <li>1) Describe their own fictional time machine, based on the given material and with sources/images they will find themselves.</li> <li>2) Describe the changes that need to be made during the transition from one period to another (e.g. clothes, speech).</li> <li>3) Do a research regarding the students' preferences for the period they would like to travel to, listing information for each period which arose from a survey, and asking them to justify their answers.</li> <li>4) Describe a "Time travel" adventure which culminates in France, which they have learnt through Geography lessons (criteria for era, utilisation of the time machine's description, etc.).</li> <li>5) Use future tenses and hypothetical sentences.</li> </ul>	<ul> <li>Prepares the lesson (goals, instructions, presentations, Google Forms) on Mahara.</li> <li>Informs students about the unit's goals.</li> </ul>	Mahara	Class discussion	- Students are informed about the unit's goals.	
Activity 1: Learning Entry – ePortfolio			Teacher informs students that the time has come to travel in time (past and future) so they have to be ready physically (exercise well, take vitamins), mentally (arouse their curiosity, use their criteria and correct language) and spiritually (armed themselves with courage, patience and perseverance) and fastened themselves for this magical journey  Task 1.1:	- Guides students to create and complete "My Learning" Journal Guides students to create "My ePortfolio – Time Machine"	- Mahara - "My Learning" Journal - "My ePortfolio— Time Machine	- Individual work	- Students complete the first three tabs in "My Learning" Journal, defining thus their prior knowledge	

Activity	Learning goals - outcomes  Subject area Transversal skills		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
			Teacher asks students to go to Mahara and from "Contents" select "Learning Entry" and create a "New Learning Entry", which they will name "My Learning – Time Machine".  After they have prepared it, teacher asks students to go to the journal, which they have created, and note down in the tab "Prior Knowledge" what they know about time machines, if they believe in their existence, and if they would like to travel in time and why.  Next, teacher asks students to note down in the tab "Setting Goals" what they don't know and would like to know about time machines and time travel, and in the tab "Strategies" how they would like to work for this unit; i.e. individually, in pairs or in groups.  Task 1.2:  Then, teacher asks students to go to "Briefcase" on Mahara and create a new page which they will name "My ePortfolio - Time Machine".  Next, teacher asks students to join the tab "My Learning – Time Machine" with the tab "My ePortfolio - Time Machine" and from "General" add "Learning Entry". Then to click on "Learning Entry" to edit and "My Learning – Time Machine" to join the two pages and click save.  Finally, teacher asks students to add "Profile Information" from "Personal Information" and after they have selected all the fields to appear on their page to click save.	and add their "My Learning" Journal and their personal information.			of the unit, their goals and the strategy which they will employ.  - Students create "My ePortfolio – Time Machine" and add their "My Learning" Journal and their personal information in "Profile".	

Activity	Learning goa	ls - outcomes Transversal skills	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
Activity 2:	Subject area	<u>Information</u>	Task 2.1: Motivation	- Informs	- Mahara	- Group	- Students find	- Feedback
Time Machine	goals	Literacy	Teacher asks students to watch on Mahara the	students about	- Video	discussion	facts in video	for the time
	- Students	- Students plan	trailer 'Time	the tasks they	motivation	- Pair work	and written	machine
	describe their	strategies to	machine' https://www.youtube.com/watch?v	have to do.	trailer		texts, which	text,
	own fictional	guide inquiry.	=90T7iLuzFgg and write down in the comments	- Guides students	'Time		refer to a	written text
	time machine,	- Students	at the bottom of the page the facts that refer to	during the	machine' <b>h</b>		journey in	via email
	based on given	evaluate and	a journey in time.	discussion and	ttps://ww		time.	from the
	material and	select	Next, teacher asks students to discuss in class	tasks.	w.youtube		- Students	class
	with	information	what type of list could be created with		.com/watc		discuss and	teacher and
	sources/image	sources and	everything they have mentioned so that they		h?v=90T7i		create a list	the other
	s they will find	tools based on	can be considered as characteristics, which will		LuzFgg		with the	recipients.
	themselves.	appropriateness	have to be included in a 'Time Travel'		- Greek		characteristi	
	- Use future	to specific tasks.	description in the 3 <sup>rd</sup> lesson.		Student's		cs of a	
	tenses and	<ul> <li>Students locate,</li> </ul>	Task 2.2: Time Machine		Book		journey in	
	hypothetical	organise,	Teacher asks students to read in their Student's		(Volume 2)		the future,	
	sentences.	analyse,	Book (Volume 2) the text <b>"A Time Machine"</b> on		- Forum		which can be	
		evaluate,	page 64 and discuss in class about its references		(discussion)		used in a	
		synthesize and	to time machines.		- Google		descriptive	
		•	Next, teacher asks students to carry out in pairs		Drive		text.	
		information	a search on the Internet, regarding the		- Email		- Students	
		from a variety of	descriptions that exist for time machines.				work in	
		sources and	More specifically, teacher asks students to find				groups and	
		media.	sources and images that refer to time machines				find relevant	
		-	and mention the relevant links in the <b>forum.</b>				sources	
			Finally, after they have studied the material and				about time	
			utilised the information from their classmates,				machines.	
		knowledge.	teacher asks students to write on Google Drive				- Students to	
			their own complete description (in pairs) for the				utilise	
			time machine.				effectively	
		<u>Communication</u>	Task 2.3: Distribution				the sources	
		- Students	Teacher asks students to send the descriptions				and create a	
		interact,	of their time machines via email to their				description	
		collaborate and	teacher, to receive <b>feedback</b> .				of their own	
		publish with					time	
		peers, experts or					machine.	

Activity		ls - outcomes	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom	Expected learning	Assessment tool
	Subject area	variety of tools and environments Students contribute to group projects to produce original	Teacher says that the main recipient of the email will be her, so they will have to enter her email address in the field (to).  Teacher says that they will have to enter the email addresses of the recipients in the field (cc), and explains that in this way whoever is mentioned in the field cc will receive a copy and can see to who else a copy of the email has been			Arrangement	- Students send the description of their time machine via email, utilising all the fields (i.e. to, cc, bcc) Students utilise effectively the given feedback so that they can make all the necessary changes to the description of their time machine.	
Activity 3: Self-evaluation			Learning – Time Machine".  Next, teacher asks students to find on Drive the file (file) with their name and complete their self-evaluation table.  Then, she asks them to go to "My Learning" Journal and add the link of their self-evaluation in the tab "Self-evaluation".	evaluation regarding their skills of information	evaluation questionnaire on Drive	Individual work	evaluate their	Self- evaluation Tool 1

Activity		ls - outcomes	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom	Expected learning	Assessment tool
	Subject area	Transversal skills				Arrangement	outputs	
LESSON 2		<u>Collaboration</u>	<u>Tasks 1.1:</u>	- Guides students	- Mahara	- Individual	- Students find	
Time Travel!		& Communication		in the task and	- Text <b>"Does</b>	work	relevant	
Activity 1:		Students	<b>Mahara</b> and click on the	the discussion.	time travel		information	
Travelling in the		communicate	link https://deltahacker.gr/timetravel/ to		exist		about time	
future can		information and			already?"		travel and	
become a reality		ideas effectively to			at		share their	
		multiple	After reading the text, teacher asks students to		https://del		thoughts with	
			write down their thoughts about what they		tahacker.g		the class.	
		•	have read in the field "Comments" at the		r/timetrav			
		and formats.	bottom of the lesson page on Mahara.		el/			
			Next, teacher asks students to share their					
			thoughts with the rest of the class, leading thus					
			into an open discussion about time travel.					
Activity 2:		Collaboration &		- Prepares lesson	- Mahara	- Group	- Students find	
Let's Investigate	<u>goals</u>	<u>Communication</u>	Teacher tells students that since travelling in	(instructions,	- Greek	work	information	
	1. Describe the		time may become a reality in the future to	texts, Google	Student's		about the	
	changes that	interact,	conduct a similar research like the one the	Forms,	Book		time periods:	
	need to be		students in their Student's book page 64 have	presentations	(Volume		the time of	
	made during	1 3	conducted so that they can find in which period	ppt) on <b>Mahara</b> .	2)		the	
	the transition	1 3	the students of Primary School Lympion wish to	- Informs	- Google		dinosaurs,	
	from one	others,	travel to.	students about	Docs		Ancient	
	period to		First, teacher asks students to split into four (4)	the task they	files.		Greece,	
	another (e.g.	•	groups before they begin their research and	have to do.	Group A:		Middles	
	clothes,	and	find information about the 4 time periods: the	- Guides and			Ages-	
	speech).	environments.	time of the dinosaurs, Ancient Greece, Middle	facilitates the			Byzantium,	
	2. Do a research	- Students	Ages – Byzantium, Greek Revolution.	students.	<u>dinosaurs</u>		and Greek	
	regarding the		She explains to the students that before they		Group B:		Revolution.	
	students'		ask the students of Primary School Lympion,		<u>Ancient</u>		- Students	
	preferences		they have to prepare material (a small		<u>Greece</u>		prepare a	
	for the period		presentation) for these four (4) periods so that		Group C:		presentation	
	they would	problems.	they can inform the students.		<u>Middle</u>		about the	
		<u>Information</u>	Teacher divides the students into four (4)		Ages-		periods (the	
	to, listing the	<u>Literacy</u>	groups and after they have found information		<u>Byzantium</u>		time of the	
	information		on the Internet about the period that was				dinosaurs,	

Activity	Learning goals -	- outcomes	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	for each period which will arise from a survey.  3. Use future tenses and hypothetical sentences.	Students plan strategies to guide inquiry. Students evaluate and select information sources and tools based on appropriateness to specific tasks. Students locate, organise, analyse, evaluate, synthesize and	assigned to them, she asks them to prepare in the file Google Docs that has been assigned to them a small presentation.  Group A: The time of the dinosaurs  Group B: Ancient Greece  Group C: Middle Ages-Byzantium  Group D: Greek Revolution  Teacher informs that their presentation needs to include the following information:  • To which era does their period refer? How many years ago?  • What are the main characteristics of the period?  • Why would they like to live in that period?  • Relevant images  • Reference to their research's sources.  Teacher asks students to go to "My Learning" Journal and add the link of their group assignment in the tab "Evidence".		Group D: Greek Revolution		Ancient Greece, Middles Ages- Byzantium, and Greek Revolution) and mention the relevant sources of their information.	
Activity 3: Research "Time Travel"		with peers, experts or others,	Task 3.1: Teacher asks students to access Google Forms, which is posted on Mahara (http://mahara.ats2020.eu/view/view.php?id=14088), and each group has to add the question "How many children from each class would like to travel to"  Next, after completing the questionnaire, teacher asks students to embed it on the class blog along with the presentations they have	<ul> <li>Informs students about the task they have to do.</li> <li>Guides and facilitates the procedure whenever is necessary.</li> </ul>	- Mahara - Greek Student's Book (Volume 2) - Google Forms - Class blog	- Group work	-Students create an electronic questionnaire (Google Forms) for their researchStudents embed the questionnaire	

Activity		lls - outcomes	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom	Expected learning	Assessment tool
	Subject area	Transversal skills				Arrangement	outputs	
		variety of tools	prepared for each period, so that all the classes				and	
		and	can answer it.				presentations	
		environments.	Finally, teacher asks students to inform the				they have	
		- Students	teachers of Primary School Lympion about the				prepared for	
		communicate	research they are conducting and their new				the four (4)	
		information	post via email (to: Mrs Maria Raouna, cc: to all				periods on the	
		and ideas	the teachers of their school, and bcc: to Mrs				class blog.	
		effectively to	Panayiota Hadjittofi).				-Students	
		multiple	Teacher asks students to go to "My Learning"				inform via	
		audiences,	Journal and add the link to their questionnaire				email the	
		using a variety	in the tab <b>"Evidence"</b> .				teachers of	
		of media and					Primary	
		formats.					School	
		Creativity &					Lympion for	
		<u>Innovation</u>					the	
		- Students					conduction of	
		innovate and					their research,	
		creatively use					utilising all the	
		tools and					fields of an	
		resources.					email (i.e. to,	
							cc, bcc).	
Activity 4:		Collaboration &	<u>Task 4.1:</u>	- Informs	- Mahara	- Group work	- Students	
The results		<u>Communication</u>	After they have collected the answers of the	students about	- Google		collect the	
travel		- Students	school's students, teacher asks students to use	the task they	Sheets file		answers of	
		interact,	the link <b>Google Sheets file</b> that is in the lesson	have to do.	(Excel)		Primary	
			on <b>Mahara</b> and add the data to it, so that they	- Guides and	- "My		School	
		publish with	can create a graph altogether.	facilitates the	Learning"		Lympion's	
		peers, experts or	Teacher asks students to go to "My Learning"	procedure	Journal		students.	
		others,	Journal and add the image with the results in a	whenever is	- Class blog		- Students	
		employing a	graph in the tab <b>"Evidence"</b> and share them on	necessary.			analyse the	
		variety of tools	the class blog.	- Informs			data and	
		and		students about			create a	
		environment		the entry in <b>"My</b>			graph of the	
		- Students		Learning"			results.	
		communicate		Journal.				

Activity	Learning goa	ls - outcomes  Transversal skills	Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
Activity 5: Self-evaluation		information and ideas effectively to multiple audiences, using a variety of media and formats.  - Students contribute to class projects to produce original works or solve problems.		- Informs students about their self- evaluation regarding their skills of information literacy and collaboration and communication.	- Mahara - Self- evaluatio n question naire on Drive - "My Learning " Journal	- Individual work	- Students share the results on the class blog.  Students evaluate their skills of collaboration and communication , information literacy and creativity and innovation.	Self- evaluation Tool 2
LESSON 3 Description of a time travel Activity 1: Pre-writing phase			Task 1.1: Teacher informs students that today they will travel with the time machine they have already designed/described (pair work). Teacher informs students that initially they will have to decide with the partner they have designed the time machine to which period they would like to travel, having in mind the following criteria: -Which are the characteristics of the period they would travel to?	- Prepares the lesson (instructions, ideogram) on Mahara Informs students about the task they have to do.	- Mahara	- Group work	Students are informed about the written description they have to produce as well as the criteria they have to take into consideration	

Activity Learning goals - outcomes Tasks (students/teacher)	Teacher's role	Tools	- Classroom	Expected learning	Assessment tool
Subject area  Transversal skills  -Who would they like to meet? -What is the secret hidden in the history ar period they will travel to? -What are they hoping to discover about it? -What else would make their journey excitir for the reader? -Their journey should end in Magical France! Teacher informs that they should also take init consideration that: -If they talk about the past, they have to use past tenses.  Activity 2: Pre-writing Phase  Collaboration - Students interact, collaborate and publish with peers, experts and others, employing a variety of tools and environments.  Eacher asks students to create in pairs at dieogram on MindMaple (example HERE which should include their original ideas for the description they have to do.  Based on the criteria they have been given, in the period's characteristics, the heroes, the mystery, the revealing/exciting fact, usef words for describing, etcFinally, teacher informs students that after the have prepared their ideogram, they have to do on the criteria they have been given, in the period's characteristics, the heroes, the mystery, the revealing/exciting fact, usef words for describing, etcFinally, teacher informs students that after the have prepared their ideogram, they have to do on the criteria they have been given, in the period's characteristics, the heroes, the period's characteristics, the heroes, the mystery, the revealing/exciting fact, usef words for describing, etcFinally, teacher informs students that after the have prepared their ideogram, they have the period's characteristics, the heroes, the mystery of the priod's characteristics, the heroes of the p	- Informs students about the task they have to do Facilitates the process whenever is necessary Informs students about "My Learning" Journal entry.	on MindMaple - " <b>My</b> <b>Learning</b> " Journal	- Group work	outputs  during the writing process.  - Students prepare on an ideogram the original ideas for the description they will do.	1001

Activity	Learning goals - outcomes  Subject area Transversal skills		(students/teacher)		Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
Activity 3:	Subject area	Collaboration &	Task 3.1:	- Informs	- Mahara	- Group work	Students create	Peer
Writing Phase	goals	Communication	Teacher tells students that they have to click on	students about	- Each		their own	evaluation
	1) Describe a	- Students	the link 'Time travel' from the lesson on	the task they	group's file		descriptive text	(students
	"Time Travel"	interact,	Mahara and create a file in the particular folder,	have to do.	on Google		about time	evaluate the
	adventure	collaborate	where they have to write their story, using their		Drive in the		travel.	context of
	which	and publish	original description for their time machine and		folder		- Students	their
	culminates in	with peers,	their ideogram.		'Time		evaluate the	classmates'
	France, which	experts or	After each group uploads their descriptive text		Travel'		comments	descriptive
	they have	others,	about time travel, teacher asks students to use		- "My		from their	text "Time
	learnt through	employing a	the file in the <b>Drive</b> file to proceed in peer		Learning"		classmates'	Travel".
	Geography	variety of tools	evaluation and give feedback to their		Journal		feedback on	Evaluation 3
	lessons	and	classmates about their assignment.				the context of	
	(criteria for	environments.	Finally, after students have evaluated the				their text and	
	the era,	- Students	comments and the peer evaluation of their				make the	
	utilisation of	communicate	assignment and made the necessary changes,				necessary	
	the time	information	teacher asks students to go to "My Learning"				changes on	
	machine's		Journal and add their assignment in the tab				their	
	description,	effectively to	"Evidence".				descriptive	
	etc.).	multiple					text.	
		audiences,						
	2) Use future	using a variety						
	tenses and	of media and						
	hypothetical	formats.						
	sentences.	Creativity &						
		<u>Innovation</u>						
		- Students						
		create original						
		works as a						
		means of						
		expression.						
Activity 4:			<u>Task 4.1:</u>	- Informs	- Mahara	Individual	-Students	Evaluation 4
Self- evaluation -			Teacher asks student to find on Drive the file	students about	- Class	work	evaluate their	
Peer evaluation			(Drive) with their name and complete their	the evaluation	evaluati		skills of	
			self-evaluation – peer evaluation table.	process.	on on		collaboration	
					file on		and	

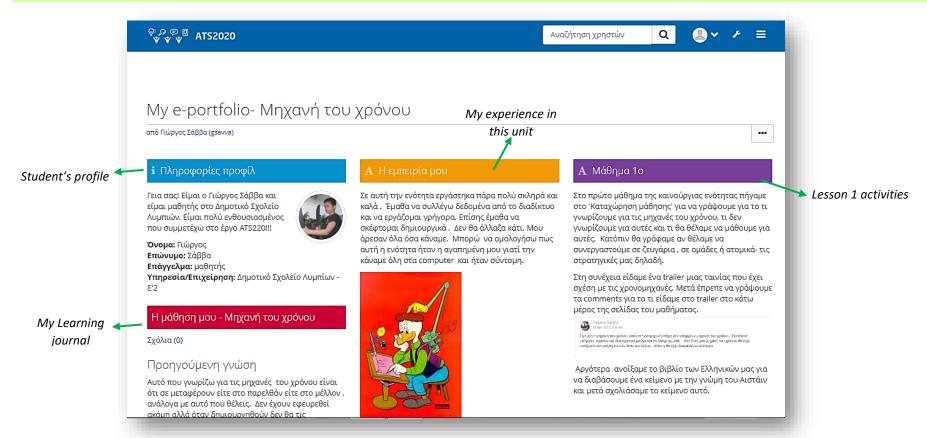
Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom	Expected learning	Assessment tool
	Subject area	Transversal skills				Arrangement	outputs	
			Next, she asks them to go to "My Learning" journal and add the link of their self-evaluation in the tab "Self-evaluation".		Google Drive (Drive)		communicatio n, information literacy and creativity and innovation.	
		<ul> <li>Autonomous learning</li> </ul>	Task 1.1:	- Prepares lesson		- Individual	Students can	
Let's create our ePortfolio! Activity 1: Guidance	Activity 1:		Teacher asks students to reflect, evaluate and describe what they have learnt in this unit and what they have created. She explains that they can show again part of or their entire assignments on this page, i.e. what they have done, what happened and more specifically, which ATS2020 skills they have developed from each task.  Finally, teacher cites a guiding table on the basis of which she asks students to build their ePortfolio.  -My experience in this unit (how I worked; what I think I have learnt; what I could have done better; what I would change; which assignment I liked more and why)  -1 <sup>st</sup> lesson – assignment (description and citation – link and image)  -2 <sup>nd</sup> lesson -assignment (description and citation-link and image)  -3 <sup>rd</sup> lesson - assignment (description and citation – link and image)  -Skills I have developed in this unit (refer to	(instructions) on Mahara.  - Guides students on how to create their ePortfolio.	ePortfolio	work	reflect, evaluate all their assignments and present them in their ePortfolio, presenting what they have learnt at knowledge level and which skills they have developed.  Complete ePortfolio. Exemplar ePortfolios	
			their self-evaluations and complete the skills, but also add the links).					
Activity 2: Presentation and Distribution of ePortfolio.			Task 2.1: Teacher asks students to share with her their ePortfolio page for the final evaluation.	<ul> <li>Explains to students the self-evaluation process.</li> </ul>	- Assessm ent tool on <b>Drive.</b>	- Individual work	Reflection and self-evaluation.  Complete assessment	Final assessment tool of the ePortfolio, which the

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom	Expected learning	Assessment tool
	Subject area	Transversal skills	(2000000)			Arrangement	outputs	100.
			Finally, teacher asks students to evaluate, on the basis of their reflection, the ATS2020 skills they have developed throughout the unit. Students can find the evaluation tool on <b>Drive</b> .				tool of ATS2020 transversal skills.	evaluates the student's ePortfolio. <b>Evaluation 5</b>
			Students can find the evaluation tool on brive.					Final
								assessment
Self-evaluation ATS2020								tool which students
Transversal Skills								evaluates the
Transversar skins								skills of
								information
								literacy, collaboration
								and
								communicatio
								n and creativity
								and
								innovation.
								Evaluation 6
								Final assessment tool of
								transversal
								skills ATS2020,
								which teacher
								evaluates the
								students' skills.
								Evaluation 7

### IV. Material, resources and students' artefacts

#### The assessment tools are available in Greek in the resource portal version of the lesson

#### **Exemplar ePortfolio**



http://mahara.ats2020.eu/view/view.php?t=nCho2WHlcG3kjpATwVqJ

### **CYPRUS**

## Physics: Heat and Calorimetry





	Physics: Heat and Calorimetry
I. GENERAL DESC	CRIPTION
Country	Cyprus
Author/Editor	Manolis Kyriakakis
School	Engomi Gymnasium- Kyriakos Neocleous
Subject	PHYSICS
LD Title	Heat and Calorimetry
Year goup	3rd grade of Secondary Education (14-15 years)
Duration	4 periods
Short description	The present learning design focuses on the understanding of the phenomenon of the change of temperature of a body, by engaging students in activities during which they explore the factors determining this change. By studying various informational sources, as well as by engaging in experimental activities designed by themselves, students figure out the factors that determine the change of temperature of a body, they formulate the mathematical relationship of the calculation of Calorimetry, and explain the importance of the heat capacity of water. They then solve quantitative applications in class.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/heat-and-calorimetry
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/thermotita-thermidometria

### II. Learning Design Macro-level

#### **Digital Tools** (affordances)

Use of Office365 OneNote- o365.ats2020, PPT, smartphones (photos and videos), digital questionnaires, Microsoft forms etc.)

## Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Compare the movements of molecules in solids, liquids and gases by use of simulations (1 period)
- Verify through experiments that the change of temperature of a body depends on the mass of the body in question, the quantity of temperature that is transferred from, or to the body, as well as from the type of material of the body
- They formulate the mathematical relationship of the calculation of the quantity of heat that is transferred to/ from a body.
   They evaluate and explain the importance of the heat capacity of the water to everyday activities (1 period).

# Tasks to develop these competences towards the learning outcomes

- Students study the molecular structure of the three states of matter by running digital simulations
- Students complete the "My Learning Journal"
- Students carry out in the lab the experiments about the natural states of matter. They note down their observations in OneNote Class Notebook
- Teacher's presentation in class (3 stories). Students make assumptions in worksheet and announce them.
- Students take pictures or videos during the control activities of the factor that influences the amount of heat that is absorbed or released by a body. (Evidence can be uploaded).
- Students discuss with classmates of other groups and write down the factors studied by other groups. The teacher writes on the board the mathematical relationship that connects the amount of heat with the factors that affect it, and they discuss in class the units of measurement of the physical quantities. The specific heat capacity C, which is characteristic for the material.
- The teacher brings up the natural phenomenon of the sea and the sand and asks students to provide their interpretations (type of material).
- Students apply the mathematical relationship of Calorimetry in different quantitative applications in class and at the end, they fill in a multiple choice questionnaire about Calorimetry.
- Students develop their ePortfolios for the unit.

#### Leaning outputs - through all stages (assessment)

- Completed My Learning Journals
- Evidence of the group work of carrying out experiments and completion of information in *OneNote Collaboration Space*, as well as in the *private notebooks* of each student
- Completed experimental worksheet
- Collection of evidence (photos, videos) of lab activities (experiments on Calorimetry in OneNote Class Notebook)
- Completion of the self-assessment sheets on Calorimetry and Skills

Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### Information Literacy

- Process information and construct new knowledge.
- Integrate new knowledge and apply to new situations.

#### **Creativity and Innovation**

- Identify and match needs with possible solutions.
- Integrate and re-elaborate.

#### **Emerging**

#### **Collaboration and Communication**

 Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments.

#### **Autonomous Learning**

Autonomous Learning Skills

## III. Learning Design Micro-level

Activity title		ning goals – ng Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom Arrangement	Learning Outputs (expected)	Assessment tool
Worksheet: Molecular Structure of the natural states of matter (1 period) The use of simulation for the molecular structure of the natural states of matter	Students compare the movements, forces and distances between	Information Literacy - Process information and construct new knowledge. Digital Literacy and Communication skills - Students collaborate, and interact by using a simulation (See Simulations for the interpretation of the molecular structure Appendices and answer questions their private notebooks about the molecular structure of the three states of matter.	The teacher brings up and connects the previous unit with the characteristics of solids, liquids and gases concerning the volume and form. He/She asks students to complete the initial table.  He/ She explains what the forecast and representation model is, and how it can be used in the case of molecular interpretation of the natural states of matter with regard to forces, movements and distances between molecules.  A short video is run about the molecular interpretation of matter and a simulation is presented (See video for molecular structure of the natural states of matter- See Appendices  Students write down their observations in the worksheet (See Worksheets Molecular Structure of Matter-Appendices  Parmenides and Democritu's views are presented and a	support and guidance, based on the instructions of the worksheet. The goal is for students to realize and write down the different ways in which molecules interact in each natural state.  He/She asks students to use a simulation, so that they can complete their homework assignment in OneNote Class Notebook.	molecular structure- See Appendices - Videos for the molecular	sitting in groups, and attend their teacher's presentation on the molecular structure of the natural states of	<ul> <li>Molecular motion in solids, liquids, and gases, by the use of a simulation.</li> <li>Worksheets completed by students</li> </ul>	- Completion of homework in class - Formative assessment in class as well as through the discussion with students - Assessment of students' work in OneNote Class Notebook

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills	(constant)			Arrangement	(	
	Judject ureu	Transversar skins	discussion takes place regarding their accuracy or not.  The lesson comes to an end with the reference to the change of a state as well as to the ways that the interaction of molecules changes when a liquid turns into gas, and liquid turns into a solid respectively.					
Worksheet: Experimental Activity (1 period) The teacher presents a natural phenomenon (PPT) relating to Calorimetry. He/She presents students with three short stories, and asks students to explore one of the factors that affects the amount of heart absorbed or	way the relationship of the temperature change of a body to the mass of that body, the amount of heat transferred from or to this body, as well as to the type of material of that body.	conclusions from the data collected during implementation of the appropriate experimental schedule. They process information and construct new knowledge.  Collaboration and Communication Interact, collaborate, and publish with	The teacher presents the natural phenomenon occurring with the sand and water of the sea during the Summer (daytime/night time), in a PPT presentation (PPT presentation material – See Appendices, and asks students to carry out the experiment relating to the exploration of one of the factors (mass, type of liquid, change of temperature)  Asks students of each group to talk in class with classmates of other groups, and write down the factors studied by other	- The teacher presents the natural phenomenon (sand and water) - The teacher has a guiding role during the experiments The teacher manages the instruments and makes them available to students. He also oversees the time resources.	- The worksheets distributed to teams (Worksheets on Calorimetry-See Appendices - Teacher's PPT presentation-PPT presentation material on Calorimetry-See Appendices - The instruments and materials of the laboratory	- Students are sitting in groups in the Physics lab The groups collaborate, complete the worksheet, and announce the results in the plenary Each student transfers evidence of their work in their private notebooks (OneNote).	- Experimental investigation of the relationship between the change of temperature of a body, and the mass of the body, the quantity of heat that is transferred from or to the body, as well as the type of material of the body in question Completed worksheets of each group.	- Students are assessed by the teacher during the execution of the experimental activities, by the use of an observation sheet - Assessment is completed with the assessment of the conclusions that students make and write down in OneNote, after the completion of the

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills	, , ,			Arrangement	, ,	
released by a body.		resources and materials (experiment) in order to prove the mathematical relationship of Calorimetry.	upload evidence of their work in the groups in the collaboration space, and write down a substantiated conclusion about the factor that they have investigated.					experimental activities.  - The completed fields in students' My Learning Journals  - (See in Appendices My Learning Journal for the Unit)
Worksheet Experimental Activity- Completion – 1 period Presentation of the findings of each group in the plenary, and formulation of the mathematical relationship of Calorimetry. Presentation and study of Specific Heat	mathematical relationship of calculating the amount of	Communication Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and	lesson his/her initial presentation and asks students to mention the factors that affect heat. He/She summarizes the factors, and	-The teacher asks the students of each group to talk with the students of other groups, and write down the other factors studied by the groupsThe teacher writes on the board the mathematical relationship connecting the amount of heat with the factors determining it (type of material, mass, change of temperature). A discussion takes place	Calorimetry (See Appendices)	- Students sit in groups in the lab - Groups collaborate, complete the worksheets, and announce the outcomes in the plenary - Each student transfers evidence, and writes the conclusions in his/her private notebook (OneNote).	<ul> <li>Mathematical relationship for calculation of the amount of heat transferred from or to a body: ΔQ = m c ΔT</li> <li>Definition of Specific Heat Capacity c.</li> <li>Discussion about the effect of the large Heat Capacity of water in everyday life e.g. climatic</li> </ul>	- Assessment of the students' private notebooks as well as of the degree of participation in the Collaboration Space (OneNote) of each group Homework based on the worksheet.

Activity title	Learning go Learning Ou		Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom	Learning Outputs (expected)	Assessment tool
	Subject area Trai	nsversal skills	(			Arrangement	( )	
Worksheet	Students <u>Inforn</u>	mation Literacy	Students solve the quantitative applications in class. They	measurement units of physical quantities -The Specific Heat Capacity C, relevant to the type of material is definedThe teacher comes back to the natural phenomenon of the sand and the sea, and asks students to provide an interpretation (type of material).  The teacher answers students' questions	- Worksheet on quantitative	Individual work-	Quantitative Applications of	- Assessment is ongoing
quantitative applications of Calorimetry (1 period) Students solve quantitative applications of the mathematical relationship of Calorimetry	relationship of quant Calorimetry proble Auton Learn Stude comp forma assess quest Calori scaffo reflec learni exploi appro	y it to new titative lems nomous ning ents through oletion of ative ssment tionnaires (on imetry and olding tool) ct on their ing, and ore alternative oaches (new	discuss with the teacher potential questions or difficulties.  They answer the multiple choice questions about Calorimetry in OneNote (o365.ats2020.eu)	whilst they are solving the quantitative applications.  Teacher receives information about the development of students' ePortfolios, and provides guidance	applications  - (See Quantitative Applications of relationship of Calorimetry – See Appendices  - Multiple Choice Questions in OneNote application  - Formative Self-Assessment Scaffolding Tool of Students' Competences and Skills  - https://resources.ats2020.eu/resource-	quantitative applications of the mathematical relationship of Calorimetry Individual work – completion of questionnaire	the relationship ΔQ = m c ΔT-	and formative during the solving of quantitative applications - Completion of questionnair e on Calorimetry- See Appendices - The completion of the Formative Self- Assessment

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills	(teacher) stadents)			Arrangement	(схрессец)	
		questions arise in the unit of Calorimetry).			details/SCTS/asses sment-student			Scaffolding Tool of Students' Competence s and Skills - https://resou rces.ats2020. eu/resource- details/SCTS/ assessment- student The sections on Information Literacy and Creativity and Innovation should be completed by the students for this Learning Cycle

# IV. Material, resources and students' artefacts

Α	PPENDICES	
	ACTIVITY	MATERIALS- RESOURCES-TOOLS
1	My Learning Journal for the unit.	https://ats2020- my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&aut hkey=Aa5LXMqbFyit-jxz9my2nDg See also: https://resources.ats2020.eu/resource-details/ADM/learning_journal_en
2	Molecular structure of the natural states of matter.	<ul> <li>Simulations for the molecular structure of matter: Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959">https://ats2020-eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959</a></li> <li>A video about the molecular structure of the natural states of matter: Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959">https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959</a></li> <li>&amp;authkey=Aa5LXMqbFyit-jxz9my2nDg_under Θερμότητα- Θερμιδομετρία (Φυσική Γ΄Γυμνασίου)</li> </ul>
3	Experimental investigation of the relationship determining the change of temperature of a body.	<ul> <li>Worksheets: Molecular structure of matter. Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&amp; authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία ( Φυσική Γ΄Γυμνασίου)</li> <li>Activity on the natural states of matter. Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&amp; authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία ( Φυσική Γ΄Γυμνασίου)</li> <li>Worksheets on Calorimetry. Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&amp; authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία ( Φυσική Γ΄Γυμνασίου)</li> <li>PPT presentation material on Calorimetry. Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&amp; authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμίδομετρία (Φυσική Γ΄Γυμνασίου)</li> </ul>
4	Formulation of the mathematical relationship of Calorimetry	Worksheet: Quantitative Applications of the relationship of Calorimetry Available at <a href="https://ats2020-my.sharepoint.com/personal/nicolina">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&aut <a href="https://ats20my.sharepoint.com/personal/nicolina">https://ats20my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&aut <a href="https://ats20my.sharepoint.com/personal/nicolina">https://ats20my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&aut <a ats2020-my.sharepoint.com="" href="https://ats20my.sharepoint.com/personal/nicolina/&lt;/th&gt;&lt;/tr&gt;&lt;tr&gt;&lt;th&gt;5&lt;/th&gt;&lt;th&gt;Formative Assessment&lt;/th&gt;&lt;th&gt;Formative Assessment on Calorimetry &lt;a href=" https:="" nicolina"="" personal="">https://ats2020-my.sharepoint.com/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&aut <a href="https://https://https://ats2020.com/personal/nicolina">https://ats2020-cm/personal/nicolina</a> markidou ats2020 eu/ layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&aut

### Formative Assessment Scaffolding tool 1

Formative Assessment Scaffolding Tool of Students' Competences and Skills: https://resources.ats2020.eu/resource-details/SCTS/assessment-student

## **Formative Assessment Scaffolding tool 2**

Assessment Scaffolding Tool for Students' ePortfolios: https://resources.ats2020.eu/resource-details/SCTS/assessmentToolePortfolio

### Student's ePortfolio

### Εργασία θερμικής μόνωσης

quantity when 2' thirty - 1000 km.

#### Διάδοση της θερμότητας σε διαφορετικά στερεά υλικά

 Ο Αντώνης ισχυρίζεται ότι το υλικό που χρησιμοποιήθηκε για το κτίσιμο των σπιτιών δεν επηρεάζει το πόσο γρήγορα μεταφέρεται η θερμότητα προς το περιβάλλον.

Για να επιβεβαιώσει ή να διαψεύσει τον ισχυρισμό του, σχεδίασε μια έρευνα. Χρησιμοποίησε ποτηράκια από τρία διαφορετικά υλικά: σίδερο, πολυστερίνη και γυαλί (γύψο). Αφού έριξε ίδια ποσότητα ζεστού νερού στα τρία ποτηράκια, τα τοποθέτησε σε δοχεία με κρύο νερό. Ακολούθως άρχισε να καταγράφει τη θερμοκρασία του νερού στο κάθε ποτηράκι κάθε μισό λεπτό:

#### Α) Να κάνετε το πείραμα και να συμπληρώσετε τα δεδομένα σας στον πίνακα που ακολουθεί.

Χράνος (Λεπτά)	Μεταλλικό ποτηράκι	Ποτηράκι από πολυστερίνη	Γυάλινο ποτηράκι
	3		4
0	85	85	85
0,5	53	84	75
1	48	83	66
1,5	45	81	63
2	39	80	59
2,5	38	80	56
3	38	79	53
3,5	37	79	51
4	36	77	49
4,5	35	76	47
5	35	75	45

Από ποιο σώμα «μεταφέρεται» πιο γρήγορα η θερμότητα; Το μεταλλικό, το γυάλινο ή το σώμα από πολυστερίνη;

Παρατήρησα ότι στο μεταλλικό ποτηράκι η θερμοκρασία μειώνεται πολύ γρηγορά άρα μεταφέρεται πιο γρηγορά η θερμότητα. Αντίθετα στο ποτηράκι πολυστερίνης η θερμοκρασία μειώνεται πολύ αργά άρα μεταφέρεται πολύ αργά η θερμότητα.

### Πειράματα Θερμιδομετρίας



Αρχικά ζεστάναμε τα δυο μπρίκια με νερό και χρονομετρήσαμε το χρόνο που έδρασαν τα δυο υγρά. Όταν το νερό του Νίκου αυξήθηκε κατά δ δαθμούς κελσίου από την αρχική του θερμοκρασία, σημειώσαμε την τελική του θερμοκρασία και συνεχίσαμε να χρονομετρούμε για το νερό του Πάμπου. Όταν το νερό ου Πάμπου ζεστάθηκε κατά 10 δαθμούς κελσίου δηλαδή το διπλάσιο σταματήσαμε το χρονόμετρο και σημειώσαμε την τελική θερμοκρασία του νερού του Πάμπου.



Τα όργανα μέτρησης που χρησιμοποιήσαμε είναι χρονόμετρο, θερμόμετρο, λύχνος και ζυγαριά.

# Design and Technology: Energy – Environmental Issues





I. GENERAL DESC	Design and Technology: Energy – Environmental Issues  CRIPTION
Country	Cyprus
Author/Editor	Andri Armefti
School	Lefkara Gymnasium
Subject	DESIGN AND TECHNOLOGY
LD Title	Energy – Environmental Issues
Year group	Gymnasium, C' class
Duration	4x40'
Short description	Students will learn about energy and environmental issues that come from its use, through discussion activities, searching online and presenting the outcomes of their research.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/energy_en
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/energy

## Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Recognize the importance of energy consciousness through energy saving and the use of renewable energy sources.
- Report environmental problems and suggest ways to address them.
  - Show, through examples, the environmental impact of atmospheric pollution, the destruction of the ozone layer and the uncontrolled deforestation
- Study and know the basic principles of how technology products and systems, work to reduce energy consumption.

# Tasks to develop these competences towards the learning outcomes

- Complete "My Learning" journals
- Teacher presentation energy and renewable energy sources student discussion on the presentation
- Students post in a Mahara page images presenting environmental problems. They write the problems presented in the images in the comment section.
- Students create Mahara page about an environment problem
- Book exercises
- Discussion on importance of saving energy
- Students, in groups, prepare a page in Mahara, presenting the solar water heater or photovoltaic systems
- Create ePortfolio

## Leaning outputs – through all stages (assessment)

- My Learning journal
- Students' ePortfolio
- Mahara page with images (uploaded from students) that present environmental problems
- Mahara Page with definition and impact on the environment of environmental problems
- Mahara pages, for each student group, presenting the solar water heater or photovoltaic systems

### **Digital Tools** (affordances)

- Internet access
- Mahara group

# Skills and competences necessary to reach the expected outcomes

### Targeted:

### Information literacy

- Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.
- Process information and construct new knowledge.

### **Emerging**:

### Communication and Collaboration

- Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments.
- Communicate information and ideas effectively to multiple audiences using a variety of media and formats.

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology  – Class	Learning Outputs	Assessment
	Subject area	Transversal skills	, , ,			Arrangement	(expected)	
My Learning journal	Identify previous knowledge		Students complete in their "My Learning" journals the fields of previous knowledge, goals and strategies regarding what they know about energy.	_	journals in Mahara	Students' individual work on the computers	Completed fields previous knowledge, goals, strategies in "My Learning" journal	Teacher reads students learning journals
Teacher presentation	Recognize the importance of energy consciousness through energy saving and the use of renewable energy sources.		The teacher presents: energy definition, renewable energy sources (examples, advantages and disadvantages), nonrenewable energy sources (examples, advantages and disadvantages). (With the use of software, presentation, video). A discussion with students about the presentation follows.	concepts of the		Teacher presentation		Teacher Observes students participation in the discussion
Mahara page on environmental problems	environmental problems and suggest ways to address them Show, through	Information literacy  - Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.  - Process information and construct new knowledge.	Then they upload it to a common page in Mahara's	Helps students to locate pictures	- Computers - Internet Mahara page	- Students' individual work on the computers Students comments on Mahara page	Mahara page with images with environmental problems that the students located and in the comment section of the page,	Teacher Checks whether the students have done their exercise in the Mahara page

Activity title		earning goals – rning Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology  – Class	Learning Outputs	Assessment
	Subject area	Transversal skills	, i i			Arrangement	(expected)	
	pollution, the		problems presented by the				comments from	
	destruction of the		images all the students have				each student	
	ozone layer and the uncontrolled		uploaded.				mentioning the	
	deforestation						environmental problems of the	
	delorestation						l '	
Information on	– Recognize the	Information literacy	- Students search for	-Gives instructions	- Mahara	Pair work	images Mahara page	<u>Teacher</u>
environmental	importance of	•	information about an	Assists students to	page	Pall WOIK	Mahara page where	Checks
problems	•	evaluate, synthesize and	environmental problem	use Mahara and			environmental	whether the
problems	<u> </u>	ethically use information from a	(mainly from the	locate and choose	internet		problems are	students
		variety of sources and media.	Internet), prepare a	useful information			presented	have done
		- Process information and	definition of the problem	from the internet			Pr. 200	their
		construct new knowledge.	and write its impact on					exercise in
		Communication and	the environment. They					the Mahara
		<u>Collaboration</u>	present their work on a					page
	environmental	- Interact, collaborate, and	shared Mahara page.					Observes
	problems and	publish with peers, experts, or	They should cover the					the material
	suggest ways to	others employing a variety of	following environmental					that the
		tools and environments.	problems: atmospheric					students
		- Communicate information and	pollution, ozone layer					have
		ideas effectively to multiple	destruction, uncontrolled					uploaded
		audiences using a variety of	deforestation. They					and provides
	•	media and formats.	should cite the sources					comments
	atmospheric		they used.					for improve-
	pollution, the		[If there is time, a discussion					ment
	destruction of the		follows about natural gas					
	ozone layer and the uncontrolled		and LPG, the reasons it is important to find gas in a					
	deforestation		country and examples of					
	delorestation		how it is used.]					
Saving energy	Same as above	Communication and	•	-Explains the	Student's book	Individual work	Completed	<u>Teacher</u>
	plus:	Collaboration	meaning (book exercise -	instructions	Stadent 5 book		student's book	Checks the
	Study and know		page 52)	-Guides to the		Whole class	worksheets	correctness of
	•	publish with peers, experts, or	,	solutions		discussion		the students
	principles of how		consumption (book					answers and

Activity title	Lea	earning goals – rning Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology  - Class  Arrangement	Learning Outputs (expected)	Assessment
Mahara page - solar water heater or photovoltaic systems	products and systems, work to reduce energy consumption.	others employing a variety of tools and environments.  - Communicate information and ideas effectively to multiple audiences using a variety of media and formats.  Information literacy  - Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.  - Process information and construct new knowledge.	Discussion with students about the necessity of energy saving in the current era and systems that help reduce energy consumption.  Students in couples prepare a page in Mahara where they present the solar water heater or photovoltaic systems. They locate information online. Students are asked to be careful about the credibility of their sources and to cite their sources. They should include photos and videos.  Peer evaluation of their work (based on a rubric)	-Discusses with the students about saving energy  Gives instructions Helps students to use Mahara and search information online	- Mahara - Internet	Pair work	- Mahara page (for every 2 students) for solar water heater or photovoltaic systems - Completed self- assessment tools	discusses with them the way of solving the exercises  Peer evaluation Appendix (formative assessment tool)
ePortfolio creation		Communication and Collaboration Communicate information and ideas effectively to multiple audiences using a variety of media and formats.	Reflection Students create their	Gives instructions	Mahara	Individual work	ePortfolio for	Teacher Gives comments for improving students' ePortfolios

# IV. Material, resources and students' artefacts

## Formative assessment scaffolding tool – Peer Assessment – Activity 6

INSTRUCTIONS: Check the page your classmates created and evaluate it based on the following table. Mark an X in the box that you think is more appropriate. Save your file and upload it as a comment under their Mahara page.					
Name:					
Surname:					
Group that I evaluate:					
	Very good	average	Needs improvement		
They explained what the solar water heater/photovoltaic systems is/are.					
They explained the function of the solar water heater/photovoltaic systems.					
They used simple and easy to understand words to give their descriptions.					
They referenced their sources.					
They used relevant images.					
They used relevant videos					
They page is well organized (information are clear, arrangement is good, I can understand what					
the subject and the message is)					
Suggestions for improvement:					

## Μαριαλένα - ePortfolio- Σ&Τ- Ενέργεια

από Marialena Kazamia

🖋 Επεξεργασία σελίδας 🛮 🖰 Copy 🚥

Αυτή είναι η σελίδα του ePortfolio μου για την ενότητα ενέργεια

### Profile information

#### i Πληροφορίες προφίλ

Επάγγελμα: Μαθήτρια Υπηρεσία/Επιχείρηση: Γυμνάσιο Λύκειο Λευκάρων Γ1 Όνομα: Marialena Επώνυμο: Kazamia



"My Learning" journal

#### Σ&Τ- Ενέργεια

Προηγούμενη γνώση

=έου

- 1. Τρεις πηγές ενέργειας
- 2. Υπάρχουν Ανανεώσιμες πηγές ενέργειας
- 3. Υπάρχουν Μη Ανανεώσιμες πηγές ενέρειας

#### Στόχοι και κριτήρια επιτυχίας

Στόχος

- 1. Να μάθω όλες τις πηγές ενέργειας
- 2. Να μπορώ να εξηγώ σε κάποιον τι έιναι η ενέργεια.
- 3. Να ξέρω πότε εμφανίζεται η ενέργεια

#### Στρατηγικές

Στρατηγικές:

- 1. Power Point
- 2. Εκδρομή σε ειδικούς χώρους

#### Αναστοχασμός και αυτοαξιολόγηση

Έμαθα να ξεχωρίζω τις αναλώσημες πηγές ενέργειας και τις μη αναλώσημες πηγές ενέργειας. Ναι είμαι ικανοποιημένη από την συνεργασία που είχα με τους συμμαθητές μου. Βρήκα εύκολα πληροφορίες από το διαδίκτυο, δεν έιχα κάποια δυσκολία. Μου φάνηκε πολύ ωραία η εμπειρία να ετοιμάσω σελίδα στο Mahara. θα μπορούσα να βελτιωθώ στο να μαθαίνω πιο πολλά πράγματα καθώς τα ψάχνω στο διαδίκτυο.

#### 🝱 Ενέργεια



Add comment % Details

 ${f A}$  Εργασία περιγραφή περιβαλλοντικοι προβλήματος

#### Ατμοσφαιρική Ρύπανση

ΟΜΑΔΑ: Ματθαίος, Μαριαλένα

Ατμοσφαιρική ρύπανση είναι η ρύπανση της ατμόσφαιρας, δηλαδή η προσθήκη ουσιών (ρύπων) στην ατμόσφαιρα που υπό φυσιολογικές συνθήκες δε θα υπήρχαν. Στη σύγχρονη εποχή, συχνά η ρύπανση είναι αποτέλεσμα της ανθρώπινης δραστηριότητας.

Activity on atmospheric pollution (definition)

#### Α Εργασία για Ηλιακό θερμοσίφωνα

Ο ηλιακός θερμοσίφωνας είναι ένα ενεργητικό ηλιοθερμικό σύστημα παραγωγής ζεστού νερού χρήσης χρησιμοποιώντας την ηλιακή ενέργεια:

- Χρησιμοποιείται ευρύτατα στις χώρες που έχουν μεγάλη ηλιοφάνεια, όπως για παράδειγμα στις χώρες της Μεσογείου.
- Ο ηλιακός θερμοσίφωνας είναι η απλούστερη και η γνωστότερη ηλιακή συσκευή. Κατά την φυσικών φαινομένων. Με την αρχή του θερμοσιφώνου επιτυγχάνεται η κυκλοφορία του νερού με φυσικό τρόπο χωρίς μηχανικά μέρη ενώ η θέρμανση του νερού γίνεται με την εκμετάλλευση του φαινομένου του θερμοκηπίου που αναπτύσσεται στους συλλέκτες του.
- Ο ηλιακός θερμοσίφωνας άρχισε να χρησιμοποιείται μετά την πετρελαϊκή κρίση της δεκαετίας του '70 και ιδιαίτερα τη δεκαετία του '80 άρχισε να χρησιμοποιείται ευρύτατα στις χώρες με ηλιοφάνεια.

Διακρίνουμε δύο είδη ηλιακών θερμοσιφώνων ανάλογα με το κύκλωμα κυκλοφορίας του θερμαινόμενου μέσου:

- Ανοικτού κυκλώματος: απευθείας θέρμανση του νερού.
- Κλειστού κυκλώματος: έμμεση θέρμανση του νερού.

είδος τους, αποτελούνται από δύο βασικά μέρη:

- τυ τμήμα συλλογής
- Την πλάκα συλλογής της ακτινοβολίας
- Τους σωλήνες ροής του νερού
- Την κάλυψη (κρύσταλλο) της πλάκας απορρόφησης και
- Το θερμικά μονωμένο πλαίσιο πάνω στο οποίο στερεώνονται τα υπόλοιπα εξαρτήματα.

Group activity on photovoltaic systems

# **ESTONIA**

# English as a Foreign Language: London





	English as a Foreign Language: London
I. GENERAL DES	CRIPTION
Country	Estonia
Author/Editor	Marika Sarapuu
School	Tallinna Laagna Gümnaasium
Subject	ENGLISH AS A FOREIGN LANGUAGE
LD Title	London
Year group	8th Grade, Basic school (14-15 year olds)
Duration	3 lessons
Short description	The goal of the learning design is to gain knowledge on famous sights in London. Students form groups of 2-3 students. Each student makes a separate page of a famous sight. The group later creates a collection of pages which is shared with the whole class.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/london

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Gain knowledge on London famous sights.
- Analyze data; make the choice between relevant and irrelevant data. Collaborative work, understand instructions and act according to the instructions, give feedback to peers, submit the work on time, being creative.
- Content: The content of the lessons is about London famous sights and everything connected to that. Integrated topics history, facts, fees, videos, photos, location.
- Competences: General competences (values, social, determine yourself, study competence, communication, entrepreneurial competence);
- Subject competences are development of the vocabulary, improving IT skills in the new environment.
- Learning activity: read, listen, watch, comment, post, share, create new pages, analyse.
- Assessment: The students will get 1 mark which is assessed on the scale from 1 to 5.

# Tasks to develop these competences towards the learning outcomes

Fill in My learning • Introduction to the topic • Students are divided into groups and they are each given a specific topic to explore • Search and collect information • Prepare the presentations • Peer evaluation • Completion of My learning journal

- 1. Lesson: My Learning (1-3). Form groups; make a group page.
- 2. Lesson: design a page about one of London sights.
- 3. Lesson: Make a collection of the pages. Finish My Learning (4.-5.). Create a page of My Learning and share it with the teacher.

# Leaning outputs – through all stages (assessment)

Online collaborative group works which are shared within the class group. • Peerassessment • Gaining knowledge on the subject • Students individual My learning journals • Enriching vocabulary

# Skills and competences necessary to reach the expected outcomes

### Targeted:

- Select, search, collect, retrieve and share information
- Preparing presentations using ICT means
- Developing collaboration skills
- Plan, monitor, share their learning
- Develop self-assessment skills

### **Emerging**:

Collaboration and communication skills

Activity title	Learning & Learning Ou	<del></del>	Tasks	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment tool
Activity title	Subject area Transversal skills		(teacher/students)		10013	Arrangement	(expected)	Assessment tool
Activity 1 Fill in My Learning points 13.		Plan their learning (autonomous learning skills)	Students fill in their "My learning journal" what they already know and what they would like to learn identifying their goals. Revisit and fill in at their own needs during the whole unit.		Mahara "My learning journals"		Student's individual My learning journals with identified prior knowledge and learning goals.	
Activity 2 Form a group of 1-3.			Name a group. Add members to the group. Write a group description.		Mahara groups.	A group is formed. In the group there are 2-3 students.	Groups are formed.	
Activity 3 Make a group page. Create your page under the group page.	A group page is made. Each student creates one's own page under the group page according to the topic everybody is given by teacher.		<ol> <li>A picture of the object.</li> <li>A video of the object (max 5 min).</li> <li>5 facts about the object.</li> <li>A picture of the location of the object.</li> <li>The entrance fee to the object.</li> <li>The history of the object (max 100 words).</li> </ol>	Topics for the students: The London Eye Shakespeare's Globe Westminster Abbey The Tower of London St Paul's Cathedral The Houses of Parliament The Tower Bridge The Millennium Bridge The National Gallery Greenwich Regent Park Buckingham Palace	Mahara page creation.	To limit the information into 5 facts. To limit the history text into 100 words.	A student recognizes the famous sights of London by the picture. The student knows the history of the object.	

Activity 4 Make a collection of group pages and share the collection with the class group.	A collection of pages posted in the class group page.	Inside your group create a collection of pages about your topics. Share the collection with your class group.	Review students goals and coach them for their strategies	Mahara		A collection of pages.	
Activity 5 Fill in My learning journal 56.	My Learning journal is completed.	Evidence: Attach screenshots of your pages. Self-Evaluation What is the most valuable new knowledge you gained about the object that you didn't know before that study session?		Mahara			
Activity 6 Create a My learning page and share it with teacher.	Analyse the learning process.	Create a page about My learning Journal.	Monitor and support students activity Give feedback	Mahara	Individual	A page about My learning journal.	

# LITHUANIA

# Lithuanian language: Tales





I. GENERAL DES	Lithuanian language: Tales  SCRIPTION
Country	Lithuania
Author/Editor	Živilė Meškelienė
School	Vilnius Martynas Mažvydas Pre-gymnasium
Subject	LITHUANIAN LANGUAGE
LD Title	Tales
Year group	Lower Secondary
Duration	6 teaching periods
Short description	Lithuanian tales about the creation of the world, gods and mythical beings. Students create and record a radio show about their chosen mythical creature.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/tales

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

8.8.5. The scope of literary education content Lithuanian tales about the creation of the world, gods and mythical beings.

#### 8.8.1. TRAINING ACHIEVEMENTS

- Speaks clearly, speaks aloud, right, at an appropriate pace.
- Is able to tell an event coherently, to describe an object, an animal, a place and a person, to explain a simple process, to think about read works.
   Properly uses stylistic and rhetorical means of linguistic expression.
- Narrates stories of a solid composition (tales) in a clear, coherent, rich language.
- Individually or through tips, find information for creating text in a library or on the Internet. Is able to select information (compare, evaluate), correctly indicates the source of information.
- Discusses Lithuanian cultural phenomena and the literary (cultural) context of the work: Lithuanian folklore - its peculiarity and value.

# Tasks to develop these competences towards the learning outcomes

- Students listen to the radio show "Ryto rasa krito" ("Morning Dew dropped") and create a radio broadcast success criteria, according to which they will create their own program.
- Student groups read the subject text about a specific mythical being, re-create it into the text of the radio program (interview with the mythological researcher).
- Selects a few tales about a specific mythical being, learns to tell them.
- Collected information about the mythical being (sentences and the subject text) is organized, and the plan of the program is prepared.

### Leaning outputs - through all stages (assessment)

- A plan for the listened radio broadcast shall be made with questions, its purpose, the addressee, the main idea will be named; the five most important criteria for a good show will be named.
- Each student will write the purpose of their broadcast, the addressee, the questions in the eportfolio, and will provide information collection and publication steps.
- Working together in the group, they shall create questions about the mythical being for the guest of the show, shall classify information for each answer (indicates sources) and find 3 correct sentences.
- The group shall record the radio show about a mythical creature.
- Every student shall write a reflection in the e-portfolio of each step on how to achieve the goal

# Skills and competences necessary to reach the expected outcomes

### **Capabilities sought**

# Information Literacy / Digital Competence Able to

- to use the search of the LRT library, to find and to listen to the required radio broadcast;
- to save information from multiple sources, specify metrics properly;
- to classify the collected material according to the research questions;
- to relate knowledge and accumulated information;

### **Municipal Learning Abilities**

- to formulate the goal of learning, to define the criteria for the final result;
- to anticipate action steps;
- to keep track of the progress of the learning goal.

### The skills acquired at the same time

### **Creativity and Innovations:**

to improve creative self-expression;

#### **Communication and collaboration:**

- to collaborate in a group of three: to allocate activities, to perform them timely, share feedback;
- to agree on a co-decision.

## Digital Tools (affordances)

- LRT music library
- Digital Library (http://ebiblioteka.mkp.emokykla.lt/)
- Learning path (e-portfolio)
- Filmora Video Editor (or other sound installation program)

Activity title	Learning	ng goals – Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	- Discussing of Lithuanian folklore - its peculiarity and value Answering	- To browse the		To organize the first listening of the show	http://lrvab.lr t.lt/  http://lrvab.lr t.lt/lt/archive /19724/	groups of 3. Everyone is trying different ways of searching,	To try some ways of the search in LRT music library. The specific show is found.  The questions have been answered, the listening tasks have been performed. The task document has	

Activity title	Learning goals – Learning Outcomes Subject area Transversal skills		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
2. Designation	•	Self-government		Announces a task,	Planning tool:			Formal self-
of good		learning	The teacher publishes a long-term	helps students to		Conversation. Learning		assessment of
performance			assignment: to create a radio show	make it more	•		been examined,	
criteria			about the chosen mythical being	specific, visually	class 5-6.	toor acmonstration.	an example of a	
Criteria		- to choose the		captures students'	http://www.		•	assessment criteria
		ways and means		suggestions, explains	ugdome.lt/ko		has been	assessificine circenta
		of work	The students identify the key		mpetencijos5		prepared.	
			words and concepts of the task,	_	-		ртератеа.	
			and they raise a number of	of thoughts.	- 8/Irankiai/Pla			
		phases;	questions for each of them, the	0	navimas/Plan			
		•	tasks to be solved. The teacher		avimas 5 6%			
		•	writes the student's suggestions to		20kl/index.ht			
		final result	the map of thoughts and at the		ml			
			same time demonstrates how to					
			use the interactive planning tool.			Group work: each		
			, ,	Listens to the good		student individually		
			Task 2.2	performance criteria		writes 3 criteria. The	A map of	
			Students are returned to the radio	1 7		group discusses the	thoughts with	
			broadcast listening assignments.	students and after		suggestions of all	learning steps,	
			Based on the answers to the	corrections makes a		members and selects	radio broadcast	
			specified tasks, they distinguish the	final agreement.	Listening task	the best, most	criteria has been	
			criteria for good performance.		sheets or	important criteria of	prepared. This	
			Provides the steps for creating the		Word	the 5th show. Groups'	material has	
			broadcast and portrays them on		Document.	suggestions are linked	been uploaded	
			the map of thoughts.			/ listed in a single list.	to e-portfolio.	
3. Collection of	Searches	Information	Task 3.1	Reminds the rules of	Sheet of	Group work.	Radio show	
information	information	Literacy / Digital	Students agree on the created	the group	group		theme, purpose,	
about the	in the library	Competence	show:	discussion. Takes	communicati		plan to write in	
mythical being.	or online for	(see section	- theme (what kind of mythical	care that the	on (patterns		e-portfolio.	
	creating text	"Lithuanian	beast is told about to the	discussions are	of sentences,			
	independentl	language	audience?);	cultured.	questions).			
	y or using		- the purpose (why it will be told?);					
	tips.	skills")	- the content (what will be told?)				Interactive text	
	Are able to						comprehension	
	select		Task 3.2					

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	•	Transversal skills						
		Communication	http://lietuviu5mkp.emokykla.lt	The teacher explains		Individual work -	tasks have been	
	· ' '		reads a subject text about the devil	, -		_	performed.	
	•	operation.	and performs interactive tasks	tasks 1 and 2, the		comprehension tasks.		
	correctly	(Task 3.1)	(Gimtieji namai. Skaitau. 1	students classify,	<u>kla.lt</u>			
	indicate the	•	rinkinys).	divide information				
	source of the	O,		about the mythical				
	information.		Task 3.3	being, and perform				
		thoughts,	In the Digital Library <i>Literatūros</i>					
			<i>kūriniai 5-8 klasei</i> (Literature	_			The information	
		not people;	Works for Class 5-8) students find a	information, to			about the	
		- talk and agree.	set of tales "Sužeistas vėjas"	associate it.			mythical being	
		(Task 3.3)	("Injured Wind"). Working				has been	
			together in the group, they read				systematized.	
		works;	tales about a specific mythical		teka.mkp.em	work at home (group	https://padlet.c	
		- ask for help,	being and, according to selected	to manage the	okykla.lt/kuri	members share stories	<u>om</u>	
		provide	criteria, classify the information		<u>niai/suzeistas</u>	and fill the common		
		assistance;	given in the stories about the	provided in the tale	<u>vejas/</u>	wall ("squat") about	been	
		- everyone	mythical being.	using		the mythical being.	photographed	
		equally engage		www.padlet.com.	https://padle		and uploaded to	
		and participate.			<u>t.com</u>		the e-portfolio.	
4. Narrating of	- Narrates	Communication	Task 4.1	The teacher draws	http://lietuvi	Individual work in an	The interactive	
tales	stories of a	and co-	http://lietuviu5mkp.emokykla.lt	the students'	<u>u5-</u>	interactive learning	listening tasks	
	solid	operation.	listens to the story "Apgauta	attention to the art	.mkp.emokyk	environment.	have been	
	composition	- are actively	ragana" ("The Deceived Witch")	of narrating a tale,	<u>la.lt</u>		performed.	
	(tales) in a	listening;	and performs interactive tasks	the correct				
	clear,	- identify the	(Gimtieji namai. Klausau. 2	pronunciation, and		Individual work.		
	coherent,	successes and	rinkinys).	the variety of				
	rich	failures of other		intonations.				
	language.	people, advice.	Task 4.2			Group work: each	The narrated	
			The students choose a tale about			member comments	tale has been	
			their group's mythical creature and			the narration of the		
			learns to narrate their chosen tale.			tale according to the	loaded to the e-	
			Every student using records the			criteria in the	portfolio.	
			narrated tale.			assessment table. The		
						last word is the said by		

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs	Assessment tool
	Subject area	Transversal skills	(teacher) students)			Arrangement	(expected)	
			Task 4.3 The group listens the records and discusses the extracts of the tale and the way to narrate it better.			the narrator of the tale.	The tale narration table has been filled in the e-portfolio.	
5. Preparation	- Speaks	Information	Task 5.1	The teacher recalls				
	•	Literacy:	The group is developing a plan for	that while planning		Group work: role-		
show	speaks aloud,	- to relate	the show. Provides for the guests	the show it is		playing (presenter,		
	right, at an	knowledge and	of the show, four questions to	important to review		guests), the plan is		
	appropriate	accumulated	them, the introduction and the end	the purpose, the		being created.		
	•	information;	of the show.	main idea, the				
	- Is able to tell	Creativity and		statements recorded				
		Innovations:		in the e-portfolio. To				
	coherently,	- to improve		remember the				
	to describe			paragraph				
	an object, an	-		summarizing the				
	,	Communication		information.		Group work		
	place and a			Encourages to assess				
		operation		the plan according to	,		The radio	
		- to participate		the criteria of the			broadcasts has	
	-		The radio show is recorded and	show.	mounting		been recorded	
		become 	mounted.		application)		and uploaded to	
		involved;	- 1 - 0		1 // 11		a common wall	
		- to share the			https://padle		("squat") of the	
	Properly uses	-	The radio shows are assessed:	Evaluates the	<u>t.com</u>		class shows.	
	•	· ·	- comments from friends;	students' shows.				
		group.	- the group evaluates itself					
	means of		according to the scheduled show					
	linguistic		criteria;	friends.				
	expression.		- teacher's assessment.					

## IV. Material, resources and students' artefacts

## **LISTENING SHEET**

Listen to the excerpts from the radio show "Ryto rasa krito" ("Morning Dew dropped") and perform the tasks

Part I	PART II
1. How is the calendar time related with the tales about the creation of the world?	10. Imagine being the author of the show you are listening to. What initial information
2. What kind of Christmas traditions are still alive today?	should you have prepared before the creation of the show? Complete the
3. What world is depicted in the etymological legends of Lithuania before its creation?	description of the show.
4. Which story about the (self-) creation of the world from a duck egg did you like the most? Tell.	Subject:
5. When and who did write the two tales? Why is the author of the show referring to the source of tales?	Purpose:
6. How does the author of the show summarize the implications of the tales narrated by Genovaite	Content (show plan):
Juknevičienė and Alfredas Mickus? Write her thought in your own words.	INTRODUCTION ENUNCIATION. 1
8. Listen to the summary of the show. Enter the missed words into the paragraph.	2
The world is renewing to the man of ancient cultures In every New Year, it regains the original holiness,	3
which was characteristic to the passing of the hands. Year perceived as , having and, able to reborn in the form of New Year. With each New Year there was a new, holy, pure, yet untouched time. But	THE END
the rebirth of time and the new start are possible because	The main idea:*
9. How do you evaluate the idea of the authors of the show to include not only aetiological tales but also	11. What would you change or how would
folk songs into the story about the creation of the world? Explain your opinion.	you improve the listened show? Why?

### **LEARNING PLANNING**

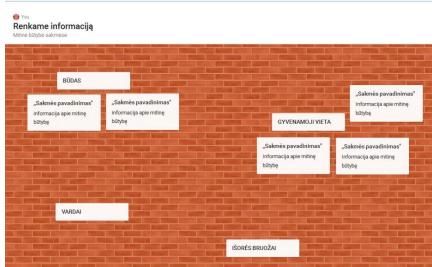
**Example of map of thoughts (**http://www.ugdome.lt/kompetencijos5-8/Irankiai/Planavimas/Planavimas 5 6%20kl/index.html )



### **INFORMATION MANAGEMENT BY CO-OPERATION**

An example of the scheme of the mythical being

(https://padlet.com/zivile\_meskeliene/v)

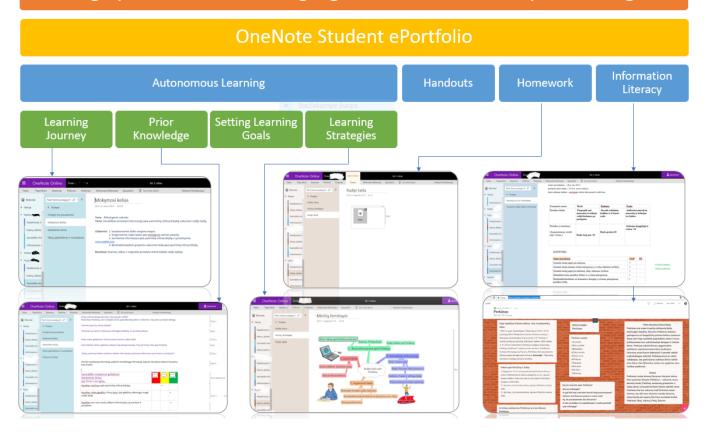


### SELE-ASSESSMENT TABLES

SELF-ASSESSMENT TABLES		
Information Literacy / Digital Competence		
To find, analyse, systematise, evaluate, process and use ethically information from various sources:		
Students use the site search.		
Examples of students' achievements	YES	NO
Students find the show by title		
Students find the show by setting the category of the show and entering the keywords		
Students find the show by title, date, keyword		
Students test several search techniques and evaluate the most convenient		
Information Literacy / Digital Competence		
To find, analyse, systematise, evaluate, process and use ethically information from various sources:		
Students are able to find the information they need and organize and apply it.	_	
Students in the digital library find tales about the chosen mythical being		
Students learn the information about the mythical being when reading the tales		
Students provide criteria for the distribution of information (aspects of the discussion of the mythical being)		
Students divide information about mythical beings into the thematic groups		
Students indicate the source of information (title of the tale)		
Students distinguish the quotes correctly (with quotation marks)		
Students re-create the collected information into the text of another genre (interview of the show - 4 questions and answers)		
Students select and use examples of artistic texts (tales) to support the subject information.		
Students identify the relevance of the information / topic (in the introductory part of the show, it is explained why they talk about mythology)		
Students summarize the collected information in a paragraph (end of the show)		
Students use the online tool <a href="https://padlet.com">https://padlet.com</a>		
Self-government learning / digital competence		
Describing learning objectives and developing learning strategies for them.	_	
Examples of students' achievements	YES	NO
Students distinguish the essential words and concepts of the task		
Students formulate exploratory questions		
Students provide sources of information		
The students agree on the criteria for the final result		
Students use an interactive map of thoughts		
Self-government learning / digital competence		
Planning and managing activities for the implementation of a learning strategy.		
Students distinguish learning steps and plan them in a row		
Students provide how they will learn / work in every step		
Students distribute a series of learning activities		
Students adjust their activity plan according to their needs		
After each stage, students examine the expediency of activities		

## **Exemplar ePortfolio**

Learning Cycle 2. Lithuanian Language. Class 6b. Folklore Myths and Legends.



# LITHUANIA

# Lithuanian language: Repetition of spelling the nasal vowels in the root





I. GENERAL DESC	Lithuanian language: Repetition of spelling the nasal vowels in the root
Country	Lithuania
Author/Editor	Živilė Meškelienė
School	Vilnius Martynas Mažvydas Pre-gymnasium
Subject	LITHUANIAN LANGUAGE
LD Title	Repetition of spelling the nasal vowels in the root
Year group	10-13 years old
Duration	4 teaching periods
Short description	The electronic portfolio captures the learning path for spelling the nasal vowels in the root: pre-knowledge, personal needs, learning strategies, evidence of activity, self-assessment.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/lithuanian-language

## **II. Learning Design**

### **Digital Tools** (affordances)

- Electronic Portfolio (Microsoft One Note application)
- Learning Planning Tools (http://www.ugdome.lt/competencies5-8)
- Spelling dictation, exercises
   (http://ebiblioteka.mkp.emokykla.lt/)
- mounting application

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- 8<sup>1</sup>.8.3. The scope of the content of the language system knowledge in the concenter of 5-6 grades
- The root is the main significant part of the words. Shift of root vowels in the related words.
- The nasal vowels are witnesses of language history. Spelling of the nasal vowels in the stem of words.
- 8<sup>1</sup>.8.1. LEARNING ACHIEVEMENTS
- correctly pronounces and writes the root vowels;
- applies the rules of spelling of the nasal vowels in the root of words.

# Tasks to develop these competences towards the learning outcomes

- To create an Office365 account, manage personal profile, get familiar with the applications.
- To discuss why it is important to set goals, plan the learning, explore examples of conversations between students and teachers, and choose practical tips on how to plan the activities and time.
- To create a learning path for spelling the nasal vowels in the root, describe it, and fill out using the Microsoft OneNote application.
- To explore the dictations of spelling the nasal vowels from trimester I, to upload their photos to the e-portfolio, to identify the main literacy gaps, to formulate personal learning needs.
- To provide and apply a strategy of improving literacy.
- To write a dictation of spelling the nasal vowels in the root and evaluate the progress made.

### Leaning outputs – through all stages (assessment)

- The electronic portfolio captures the learning path for spelling the nasal vowels in the root: pre-knowledge, personal needs, learning strategies, evidence of activity, selfassessment.
- Selected, tested and evaluated learning strategy.
- Follow-up on spelling of the nasal vowels and selfassessment based on the collected dictations of words.
- The planning, monitoring and evaluation of spelling of the nasal vowels is assessed in the electronic portfolio.
- The progress of spelling the nasal vowels in the root is assessed (the results of the 1st and 3rd trimester are compared).

Skills and competences necessary to reach the expected outcomes

## **Targeted Skills:**

## **Self-learning Abilities**

- Able to
- identify specific learning needs based on background knowledge;
- define the objectives pursued and develop a strategy for achieving them;
- plan and manage activities for implementation of the strategy;
- evaluate the process and results, present evidence of achievements;

### **Emerging skills**

# Information Literacy / Digital Competence

#### Able to

- combine existing knowledge and accumulated information;
- assess and collect the sources of information and tools based on their suitability for specific tasks.

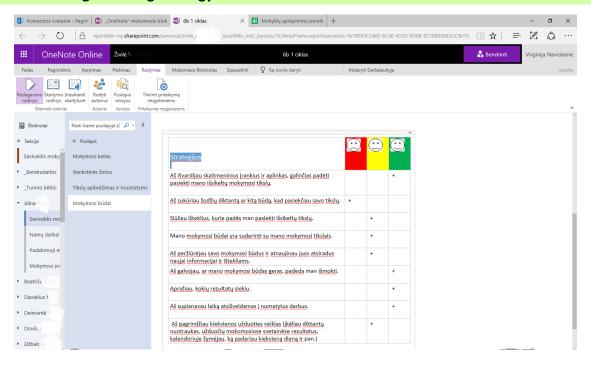
Activity title	Learning C Learning C Subject area		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
1. Office365 account management	graphic features of the text and uses them to	Literacy / Digital	change the temporary password to a permanent	safe password and password reminder	https://login.microsofto nline.com/	Because students' digital competences are different, after completing the task, the more literate students are encouraged to walk in the class and consult friends. When the whole class completes a task, move to another task.	The account of Office365 is created and a personalized profile is arranged.
2. Discussing the meaning and ways of learning planning	texts being read.	Self-learning  - Using the learning experience of other students, to find out how to improve own learning by properly planning work.	comprehension and analysis tasks.  2.2. Create a conversation	Initiate conversations in pairs. Lead the discussion of	Planning tool: texts and tasks for grades 5-6. (1), (2) http://www.ugdome.lt/ kompetencijos5- 8/mmkvi/planavimo- irankis/	Individual work - reading and text comprehension tasks.  Creative task in pairs.	Dialogues about learning planning have been explored.  Personal learning planning difficulties and needs have been indicated in the created dialogues.
3. Creation of an e-portfolio in the Microsoft OneNote application	concepts: cause, consequence, purpose, fact, opinion.	Information Literacy / Digital Competence - Use the Microsoft	3.1 Examine the example of the learning folder; identify the purpose of each page, the purpose of	folder; ask questions about the structure of	Microsoft OneNote application	Demonstration of the learning tool (e- portfolio Microsoft	The e-portfolio created by each student.

Activity title	Learning Learning (	Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	- Knows how texts are created to express opinions, evaluate, and how - by communicating facts, informing.		the text in it, and the language features.  3.2 Discuss the intended learning path: identify its benefits, adjust the steps, and offer additional learning steps.  3.3. Manage the pages of the learning folder; download the required information from the Content Library.	nature of the texts, and the purpose.  Encourage students' initiative to adjust the proposed learning path, to argue their ideas.	https://login.microsofto nline.com/	OneNote application).  Discussion "Does the ability to write correctly depend on the ability to plan learning and track progress?"	the classroom
personal literacy purposes and		- Identify specific learning needs based on background knowledge; - Define the objectives pursued and develop a	their photos to the e-portfolio, to identify the main literacy gaps.  4.2 Formulate personal	Individual consultations, timely feedback.	Microsoft OneNote application  https://login.microsoftonline.com/	Individual work.  The Fair of Learning Strategies.	Learning evidence (word dictations) uploaded to the e-portfolio, existing knowledge described, and learning objectives formulated.  The self-assessment tables of self-learning are filled.
5. Independent literacy exercises, strategy implementation, monitoring, evaluation.	worus.		5.1 Execute the intended learning tasks. Evidences of learning activities uploaded to the e-portfolio.	the records of the e-	Microsoft OneNote application	Individual work	Educational evidence, assessment of learning activities

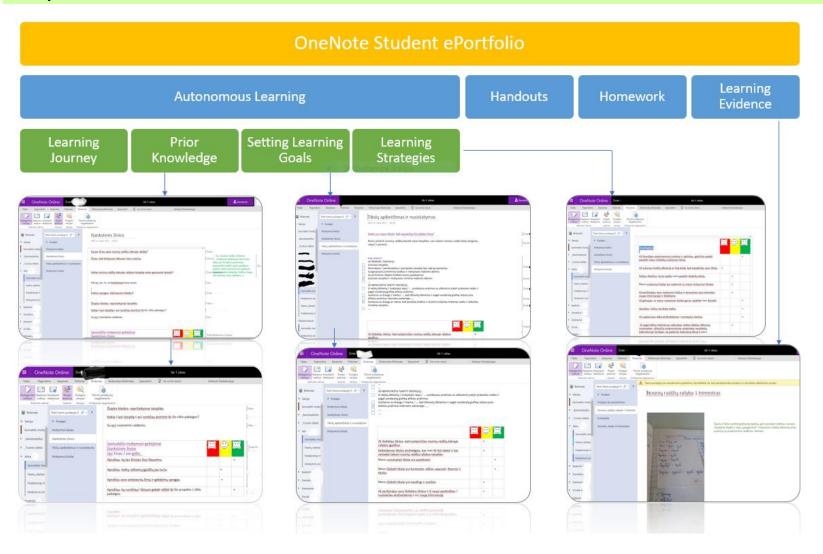
Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
		specific tasks.  Self-learning	foreseen, why and how should they be changed?	feedback.	https://login.microsofto nline.com/		uploaded to the e-portfolio.
6. Word dictation. Self-assessment of the learning cycle.	ווו נווכ וטטנ טו	- Assess the		words and evaluation criteria.		Word dictation Individual work - reflection.	Evaluated literacy progress  The specific advantages and disadvantages of the learning cycle (student questionnaire) specified

## IV. Material, resources and students' artefacts

## Students' artefacts. Autonomous Learning. Learning Strategy. Self-Assessment



# **Exemplar ePortfolio**



# SLOVENIA

# History: World War I – Isonzo front





History: World War I – Isonzo front

I. GENERAL DESCRIPTION					
Country	Slovenia				
Author/Editor	Vilma Brodnik				
School	National Education Institute Slovenia				
Subject	HISTORY				
LD Title	World War I – Isonzo front				
Year group	General Upper Secondary School,16–18 years				
Duration	2–3 school hours				
Short description	In the years 2014–2018, we commemorate the centenary of the end of World War I, which had great impact on Slovenes. On 24 May 1915, Italy declared war to the Austro-Hungarian Empire, in which the Slovenes lived at the time. The Italian military plan included the occupation of Trieste, the breakthrough towards Ljubljana and the occupation of major parts of the Slovene territory. Thus, a 600 km long battle line from Switzerland to the Adriatic Sea was established and it was divided into the Tyrol, Corinthian and Isonzo fronts. The southern part of the front, which was 90 km long, started at Rombon, ran along the Isonzo (Soča) River and it descended to the Timavo River in the Adriatic Sea. It was called the Isonzo front and represented the largest battlefield in Slovenia ever. In the learning design, we present the discussion of the Isonzo front in the general upper secondary school by integrating schoolwork with historical sources, ICT and the cooperative learning among students.				
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/wwi				

## Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Students understand the causes of World War I and the Isonzo front.
- Students describe twelve battles of the Isonzo and characteristics of a trench warfare.
- Students understand that it is important to preserve the memory of the Isonzo front with the main goal of maintaining peace and coexistence between the former warring nations.

# Tasks to develop these competences towards the learning outcomes

- Students revise the causes of World War I and the formation of an antagonist Entente and Central Powers using an e-poster in the Glogster application.
- Students discuss the common learning goals, plan one con-tent/subject goal and one transversal skill goal in terms of com-mon goals and write them down in Mahara Learning Journal, where they also review the success criteria.
- Students search for information about twelve Isonzo battles on websites, solve tasks on the worksheet and upload the completed worksheet in Mahara.
- Students study excerpts from preserved war diaries. From war correspondents' point of view, they write a newspaper article on the life of soldiers at the Isonzo front and upload the file in Mahara.
- On websites, students search for information about life in Ljubljana during World War I. In Padlet, they write a postcard to relatives in the countryside asking them for help because they are starving.
- Students prepare virtual learning path in the GuidiGo application by means of collaborative learning.
- Students self-evaluate their knowledge of the Isonzo front in Mahara Learning Journal.

## Leaning outputs - through all stages (assessment)

- Completed Mahara Learning Journal
- Completed worksheet
- A postcard about life in Ljubljana between World War I in Padlet
- A newspaper article about life of a soldier at the Isonzo front during World War I
- A virtual learning path on preserved monuments and places of the Isonzo front in application GuidiGo
- Peer feedback and self-evaluation

### **Digital Tools** (affordances)

- Mahara Learning Journal
- Glogster
- Websites resources about the Isonzo front
- Padlet
- GuidiGo

Skills and competences necessary to reach the expected outcomes

### **Targeted**

Inquiry based learning

### **Emerging**

- Information literacy (history resources)
- Critical thinking
- Digital skills
- Autonomous learning
- Collaboration and communication

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)
	Subject area	Transversal skills	(teacher) stauchts)			Arrangement	(схрестец)
	Entente and Central Powers	learning (determine the prior knowledge of the selected area) and digital literacy (create an	Task 1:  Students revise the causes for the beginning of World War I and the formation of two opposing blocks — Entente and Central Powers that fought during World War I.  The revision is individual. Students prepare a revision in a form of an e-poster (for example, in the Glogster application). An e-poster or its link is uploaded in Mahara Learning Journal. In addition to the learning and content goals, transversal skills are emphasised (information literacy, digital literacy, autonomous learning (learning based on prior knowledge)).	Explains the activity and gives instructions.	Glogster, Mahara Learning Journal	Plenary Individual work	Students' e-posters  Completed task on prior knowledge in Mahara Learning Journal
Activity 2:  Planning personal goals in Mahara Learning Journal		and success criteria, set personal goals of	Task 2: Students work in pairs and discuss subject goals and success criteria. Then students set themselves two personal goals (one subject goal and one transversal skill), they exchange and discuss them in pairs, then they upgrade them according to peer feedback and share them in Mahara Learning Journal.	Presents and discusses with students common subject goals and transversal skill goals, divides students into pairs, observes and helps students.	Mahara Learning Journal	Pair work Peer feedback	Personal student's goals and success criteria in Mahara Learning journal
Activity 3:  Learning about the Isonzo front	Isonzo front, twelve battles of the Isonzo (trench warfare, breakthrough	evaluate, select, synthesize and ethically use information from	Task 3.1: Students work in pairs: they find out the causes for beginning of the Isonzo front (imperialistic politics of Great Powers, London pact and its meaning for Slovenes). They use relevant information from websites about imperialistic politics and London pact.	Supports, helps and monitors students.	A worksheet with tasks	Pair work Individual work	Fulfilled worksheets in Mahara Learning Journal, a newspaper article and a postcard in Padlet

Activity title	Learning goals – Learning Outcomes Subject area Transversal skills		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	everyday life of ordinary soldiers at the Isonzo front, everyday life in Ljubljana during the war (citizens, refugees, war prisoners).	media; process information and construct new knowledge); autonomous learning (evaluate process and results, provide	Task 3.2:  Students work in pairs: they learn about twelve battles of the Isonzo and breakthrough of the front at Kobarid, use relevant information from websites about twelve battles of the Isonzo.  Task 3.3:  Students individually study and compare excerpts from preserved military diaries of soldiers from both sides (Austro-Hungarian and Italian) to describe everyday life of soldiers at the Isonzo front (position warfare (caverns, trenches), weapons, uniforms, diet, free time, contact with relatives), famous soldiers at the Isonzo front. Then they write a newspaper article from a war correspondent's point of view from the Isonzo front for the then Slovenian or Italian newspaper (for example for Slovenian newspaper Slovenec or Italian newspaper II Popolo d'Italia).  Task 3.4:  Students individually study relevant information from websites about everyday life of citizens, refugees and war prisoners in Ljubljana during World War I. In Padlet, they write a postcard to relatives asking for help because of lack of supplies.  Task 3.5:  In pairs, students solve tasks on a worksheet. Individually they write newspaper articles and postcards in Padlet. Afterwards, they exchange newspaper articles and postcards and evaluate them according to success criteria. Then students improve their newspaper articles and		Websites about the Isonzo front  War diaries of ordinary soldiers at the Isonzo front  Mahara Learning Journal		

Activity title		g goals – Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversar skins	postcards according to peer feedback. Students upload fulfilled worksheets, newspaper articles and link to the postcards in Padlet in Mahara Learning Journal.			J	
Activity 4:  Creation of a virtual learning path of the Isonzo front		new knowledge and apply it to new situations); digital literacy (a	Task 4:  Students are divided into groups of four students (five groups). Each group creates one virtual attraction of a virtual learning path in GuidiGo application. Each virtual attraction consists of a concentrated explanatory text of the attraction from one of the battles of the Isonzo. It presents what can a student nowadays see in the area (preserved monuments from the Isonzo front (caverns, trenches), cemetery, museum, outdoor museum etc.), includes pictures or photos of the attraction, the meaning of the attraction for preserving peace and cooperation between nowadays nations, who fought at the Isonzo front.	Supports, helps and monitors students.	Application GuidiGo Mahara Learning Journal	Group work	A virtual learning path in application GuidiGo and a link to a virtual learning path in Mahara Learning Journal
Activity 5:  Self-evaluation with Traffic Lights (semaphore)			and evidence of learning according to success criteria.	Supports, helps and monitors students.  Gives students feedback according to their evidence of learning.	Learning	Individual work	Fulfilled Traffic Lights in Mahara Learning Journal  A teacher evaluates students' evidences of learning according to success criteria

## IV. Material, resources and students' artefacts

#### Appendix to Activity 1: Identification of pre-knowledge

Create an e-poster about the causes of World War I. Take into consideration:

- 1. Revise reasons that led to World War I (old and new Great Powers and their imperialistic politics, arms race (new weapons, a lot of money for armaments), efforts for a new division of the world).
- 2. Revise the formation of allied blocks, especially two greatest: Entente Cordiale and Central Powers.
- 3. Revise first turning points before the beginning of World War I (two Morocco crises, Balkan as a "barrel of arrowroot powder", Balkan wars).
- 4. Create an e-poster (in application Glogster or other). It should consist of key words, pictures and photos of the learning topic (causes of WWI, crisis before WWI, schematic presentation of Entente and Central Powers).
- 5. Share link of an e-poster or an e-poster in Mahara Learning Journal

## Appendix to Activity 2: Individual learning plan according to common goals and information literacy

In pairs, overview the goals and success criteria of the topic – the Isonzo front.

The goals of the topic are: 

☐ I am learning to:

- 1. Explain causes for the beginning of the Isonzo front (great power of imperialistic politics (especially so-called Italian irredentism)).
- 2. Evaluate main points of London pact and their meaning for Slovenes.
- 3. Describe the course of eleven battles of the Isonzo and the breakthrough of the front at Kobarid the twelfth battle (use a map of the Isonzo front).
- 4. Compare and explain everyday life of a soldier at the Isonzo front and write a newspaper article as a war correspondent from the Isonzo front for the then Slovenian newspaper (for example Il Popolo d'Italia).
- 5. Explain everyday life in Ljubljana during World War I (life of citizens, refugees, war prisoners). In Padlet, write a postcard to relatives and ask them for help because of lack of supplies.
- 6. Create a virtual learning path in application GuidiGo to present preserved war monuments, museums and outdoor museums in the area of the Isonzo front.

The goals of information literacy are: 

☐ I am learning to:

- 1. Collect and extract key information and relevant details, facts and evidence from the sources in different media.
- 2. Search for answers, conclusions, interpretations.

- 3. Prepare opinions and justify them.
- 4. Prepare arguments (including arguments and evidence to support the statements).
- 5. Interpret events, phenomena, processes using multiple points of view (multi-perspectives).
- 6. Evaluate the credibility of information sources (e.g. following criteria: who is the author, the relationship between the facts, the evidence, the opinions, the presence of prejudices, stereotypes).
- 7. Know how to cite sources properly.

Plan two personal goals (one subject and one transversal skill goal), then exchange and discuss them in pair with your classmate. Afterwards upgrade your learning plan according to peer feedback and share it in Mahara Learning Journal.

Criteria for peer evaluation of a learning plan:

Criteria for peer evaluation of a learning plan:	YES	PARTLY	NO		
Learning plan includes one individual goal according to the topic.					
2. Learning plan includes one individual transversal skill on information literacy.					
Schoolmate's recommendations to improve a learning plan:					
(Are individual subject and transversal skill goals ambitious enough?)					

## Appendix to Activities 3.1, 3.2, 3.3, 3.4, 3.5: Worksheet

**Task 3.1:** Pair work: find out the causes for the beginning of the Isonzo front (imperialistic politics of Great Powers, London pact and its meaning for Slovenes). Use relevant information from websites about imperialistic politics and London pact.

#### (Recommended websites:

- http://www.rtvslo.si/1sv, 24. 9. 2017.
- http://www.100letprve.si/, 24. 9. 2017.
- <a href="https://www.kobariski-muzej.si/">https://www.kobariski-muzej.si/</a>, 24. 9. 2017.
- http://www.potmiru.si/, 24. 9. 2017.
- <a href="http://www.muzej-nz.si/?page">http://www.muzej-nz.si/?page</a> id=962, 24. 9. 2017.
- <a href="https://www.kamra.si/">https://www.kamra.si/</a>, 24. 9. 2017.
- You can use all other websites with relevant historical information about the topic.)

**Task 3.2:** Pair work: learn about twelve battles of the Isonzo and breakthrough of the front at Kobarid, use relevant information from websites about the twelve battles of the Isonzo. Write the report on the course of battles using a map of the Isonzo front



A map of the Isonzo front (author: Vilma Brodnik, print: Kartografija, d. o. o.)

Task 3.3: Individually study and compare excerpts from preserved military diaries of soldiers from both sides (Austro-Hungarian and Italian) to describe everyday life of soldiers at the Isonzo front (position warfare (caverns, trenches), weapons, uniforms, diet, free time, and contact with relatives), famous soldiers at the Isonzo front. Then write a newspaper article from a war correspondent's point of view from the Isonzo front for the then Slovenian or Italian newspaper (for example for Slovenian newspaper Slovenec or Italian newspaper Il Popolo d'Italia).

(Recommended military diaries from school library:

- Mlakar, Albin (1995). Dnevnik 1914–1918. Kobarid: Turistična agencija K. C. K.
- Triska, F. Jan (2000). Pozabljena fronta prve svetovne vojne: Iz vojakovega dnevnika s fronte ob Soči in Piavi 1916–1918. Celovec: Mohorjeva Celovec.
- Baratta, Michel (1989). La mia guerra: Ignorata dalla storia. Diario di un soldato sul Carso e in Serbia 1916–1919. Editore Moro.
- You can use any other preserved and printed military diaries.)

Afterwards, exchange your newspaper article with schoolmates and evaluate them according to the success criteria. Then improve your newspaper article according to peer feedback.

**Task 3.4:** Individually study relevant information from websites about everyday life of citizens, refugees and war prisoners in Ljubljana during World War I, then write a postcard in Padlet to relatives asking for help because of lack of supplies.

(Recommended websites:

- http://www.sistory.si/11686/2336, 24. 9. 2017.
- https://www.dlib.si/details/URN:NBN:SI:doc-T9I8N7H4, 24. 9. 2017.
- You can use any other websites with relevant historical information about the topic.)

Exchange postcards with schoolmates and evaluate them according to success criteria, and then improve postcards according to peer feedback.

Task 3.5: Upload and share fulfilled worksheets, newspaper articles and links to postcards (created in Padlet) in Mahara Learning Journal.

## Appendix to Activity 3.3: Success criteria for peer evaluation of a newspaper article about the Isonzo front

Criteria for peer evaluation of a newspaper article:	YES	PARTLY	NO
1. An article includes relevant historical information from military diaries (at least from two different diaries).			
2. An articles includes information on position warfare (caverns, trenches), weapons, uniforms, diet, free time, contact with relatives), famous soldiers etc.			
3. An article is written from the point of view of a Slovenian war correspondent from the Isonzo front – multiperspectivity.			
4. An article is written from the point of view of an Italian war correspondent from the Isonzo front – multiperspectivity.			
5. An article includes at last 150 words.			
Schoolmates' suggestions how to improve the article:			

## Appendix to activity 3.4: Success criteria for peer evaluation of postcard from Ljubljana during World War I

Criteria for peer evaluation of a postcard:	YES	PARTLY	NO
1. A postcard includes relevant historical information to describe lack of supplies in Ljubljana during WWI.			
2. A postcard is written in the spirit of the time of WWI (language, situation in Ljubljana and Austro-Hungarian).			
3. A postcard is written in Padlet.			
Schoolmates' suggestions how to improve the postcard:			

#### Appendix to activity 4: A worksheet for a virtual learning path in GuidiGo

Students are divided into five groups of four students. Each group creates one virtual attraction of a virtual learning path in GuidiGo application. Each virtual attraction consists of:

- \*concentrated explanatory text of the attraction from one of the battles of the Isonzo,
- \*presentation what can a student and other people see nowadays in the area (preserved monuments from the Isonzo front (caverns, trenches, cemetery, museum, outdoor museum etc.),
- \*pictures or photos of the attraction,
- \*the meaning of the attraction for preserving peace and cooperation between nowadays nations, who fought at the Isonzo front (that such war will never happen again).

 $i_i$ 

#### Appendix to activity 4: Success criteria for peer evaluation of a virtual learning path in GuidiGo

Cri	teria for peer evaluation of a virtual learning path:	YES	PARTLY	NO
1.	A virtual attraction consists of a concentrated explanatory text of the attraction from one of the twelve battles of the Isonzo; it presents what can be seen nowadays in the area (preserved monuments from the Isonzo front (caverns, trenches, cemetery, museum, outdoor museum etc.).			
2.	A virtual attraction includes pictures or photos of it (cite the resource properly).			
3.	A virtual attraction presents its meaning for the present day life – preserving peace and cooperation between nowadays nations, who fought at the Isonzo front.			
Scl	noolmate's suggestions to improve virtual attractions:		•	•

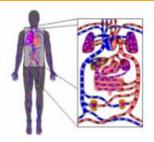
## Appendix to activity 5: Self-evaluation with Traffic Lights

Su	ccess criteria to self-evaluate knowledge of the topic:		Arguments, comments, notes:
1.	I can explain causes for the beginning of the Isonzo front (imperialistic politics of Great Powers (especially so-called Italian irredentism)).		
2.	I can evaluate main points of London pact and their meaning for Slovenes.		
3.	I can describe the course of eleven battles of the Isonzo and the breakthrough of front at Kobarid – the twelfth battle (use a map of the Isonzo front).		
4.	I can compare and explain everyday life of a soldier at the Isonzo front and write a newspaper article as a war correspondent from the Isonzo front for the then Slovenian newspaper (for example Slovenec) or the then Italian newspaper (for example II Popolo d'Italia).		
5.	I can explain everyday life in Ljubljana during World War I (life of citizens, refugees, war prisoners).		
6.	In Padlet, I can write a postcard to relatives asking them for help because of lack of supplies.		
7.	I can create a virtual learning path in application GuidiGo to represent preserved war monuments, museums and outdoor museums in the area of the Isonzo front.		
8.	My personal goal was:		
Те	acher's feedback:	1	

	cess criteria to self-evaluate information literacy skills (working with historical resources from erent media):		Arguments, comments, notes:
1.	I can collect and extract key information and relevant details, facts and evidence from sources from different media.		
2.	I can search for answers, conclusions, interpretations.		
3.	I can prepare opinions and justify them.		
4.	I can prepare arguments (including arguments and evidence to support the statements).		
5.	I can interpret events, phenomena, processes from multiple points of view (multiperspectivity).		
6.	I can evaluate the credibility of information sources (e.g. follow criteria: who is the author, the relationship between the facts, the evidence, the opinions, the presence of prejudices, stereotypes).		
7.	I know how to cite sources properly.		
8.	My personal transversal skill was:		
Tea	cher's feedback:	<u> </u>	

## Science: Circulatory system – Transport systems – The functioning of the heart





	Science: Circulatory system — Transport systems — The functioning of the heart						
I. GENERAL DESC	I. GENERAL DESCRIPTION						
Country	Slovenia						
Author/Editor	Saša Kregar, Simona Slavič Kumer, Radovan Krajnc						
School	National Education Institute Slovenia						
Subject	SCIENCE						
LD Title	Circulatory system – Transport system – Heart functioning						
Year group	Primary School, Eight Grade (13–14 years)						
Duration	3–5 school hours						
Short description	Activities presented in the learning design support students' learning about circulatory system.						
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/heart						

## II. Learning Design Macro-level

#### **Digital Tools** (affordances)

- Mahara Learning Journal
- Google Forms
- Websites on heart functioning

## Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Students understand the role of blood and the purpose of the transport system.
- Student describe heart anatomy and physiology.
- Students understand the role of pulmonary and systemic circulation.

# Tasks to develop these competences towards the learning outcomes

- Students identify their pre-knowledge by means of a questionnaire.
- Students discuss learning intentions and success criteria and set up their personal learning goals.
- In groups, students plan the research process.
- They write their research plan in Mahara Learning Journal.
- Students give feedback to their peers regarding their research plans.
- Students carry out the research. They review theoretical background of the topic.
- They upload the report of the research in Mahara Learning Journal.

## Leaning outputs – through all stages (assessment)

- Plan of the research
- Review of theoretical background
- The report of the research
- Peer feedback and self-evaluation

Skills and competences necessary to reach the expected outcomes

#### **Targeted**

Inquiry based learning

### **Emerging**

- Collaboration and communication
- Digital skills
- Information literacy
- Critical thinking
- Self-evaluation

## III. Learning Design Micro-level

Activity title	Learning Learning ( Subject area		Tasks (teacher/students)	Teacher's role	Tools	Methodology - Class Arrangement	Learning Outputs (expected)
Activity 1: Solve the test  Activity 2i: Fill in Mahara Learning Journal	the test.	Determination of prior knowledge on the selected skill.	circulatory system (a questionnaire in	explains the sequence of the activity.	Google Forms  Mahara- Learning Journal	Plenary Individual work	Students' individual Mahara Learning Journals with identified prior knowledge on the subject and selected transversal skill.
Activity 2ii: Fill in Mahara Learning Journal		<ul> <li>Setting the subject and personal goals.</li> <li>Co-creation of success criteria.</li> </ul>	goals and write them down in Mahara	groups and helps them	Mahara Learning Journal	Group work Individual work	Individual students' goals and success criteria in Mahara Learning Journal.
Activity 4: Group planning of the research	pulmonary circulation, systemic circulation).	strategy to achieve the goal. Plan the research and choose your	Task 4.1: Students are divided into two types of groups: basic and expert groups.  Task 4.2: Students in the basic groups plan the research. Each member chooses his/her role and a topic and writes down questions about the unknown facts.  Task 4.3: Students move to the expert groups, review theoretical background of the topic chosen (blood, heart, pulmonary	Monitors and supports students' activities.	Mahara Learning Journal	Group work Individual work	Research plan and individual strategies to achieve personal goals.

Activity title	Learning Learning ( Subject area	_	Tasks (teacher/students)	Teacher's role	Tools	Methodology - Class Arrangement	Learning Outputs (expected)
Activity 2iii: Fill in Mahara Learning Journal		background of the topic.	circulation, systemic circulation) and answer the questions of the basic groups.  Task 4.4: Students go back to the basic groups and report the conclusions from the expert groups. They define a dependent variable relating to heart rate. The group prepares the research plan: what factors influence heart rate.  Task 5.1: In Mahara Learning Journal, students write down strategies to achieve the subject goal and carry out the research plan.  Task 5.2: In Mahara Learning Journal, students write down their strategies of developing one transversal skill.				
Activity 2iiii: Feedback on the research plan		Give feedback on the research plan.	Task 6.1: Students choose another basic group and mutually give feedback on their research plan with regard to success criteria of the research process.	· ·	Mahara Learning Journal (Feedback)	Group work Individual work	Feedback on the research plan.
Activity 7: Improve the research plan, carry it out, gather data and present the findings	Improve the research plan. Carry out the research and gather data.		Task 7.1: Students improve the research plan by taking into account peers' feedback. Task 7.2: Students carry out the research and gather data. Task 7.3: Students process the data gathered and present the findings.	Monitors and supports students' activity.  Organizes presentations.	Mahara Learning Journal Word Power Point	Group work Individual work	Carrying out the research. Gathering data. Presentation of the results and findings.
Activity 8: Write a report Activity 2iiiii: Self-evaluation	research report	self-evaluation of	Task 8.1: Students individually write the report and upload it in Mahara Learning Journal. They share the report with the teacher.  Task 9.1: Students write self-evaluation of the research process and chosen transversal skill.	on the report and self- evaluation. Teacher explains	Learning	Individual work	Report. Self-evaluation. Teacher's feedback.

## IV. Material, resources and students' artefacts

## Assessment of pre-knowledge - a questionnaire

Assessment of pre	morriedge a daestionname
Read the following	g statements and mark if you agree or disagree with the
1. Blood is a	fluid that is not made out of cells.
C	I agree
C	I disagree
2. The hear	t is on the right side of the chest.
C	I agree
C	I agree I disagree
3. The hear	t is built from muscle tissue.
C	I agree
О	I disagree
4. Blood bri	ngs food and oxygen to cells and takes up carbon dioxide.
С	I agree
0	I disagree
5. The hear	beat slows down during exercise.
C	I agree

C	I disagree	10. When I	work in groups, I take the leading role.
6. All animal	ls have a heart.	C	I agree
C	I agree	0	I disagree
C	I disagree	11. In grou	ps, work is equally divided among all participants.
7. Blood gatl	ners in the heart.	C	I agree
C	I agree	O	I disagree
C	I disagree		eviewing theoretical background in different sources, a not necessary, if you use your own words while describing ave read.
8. All blood	in the pulmonary circulation is oxygenated.	0	I agree
C	I agree	0	I disagree
C	I disagree	13. The resu	ults of the research confirm my assumptions.
9. We observ	ve the influence of high temperature on human sweating.	C	I agree
Which hypoth	hesis is correct?	0	I disagree
0	When it is hot, I sweat.		Tuisagree
C	Exercise increases sweating.		
C	Higher temperature increases sweating.		

#### **WORKSHEET FOR STUDENTS:**

Heart functioning – discussion about factors that influence human heart rate

### Task 1: GOALS and SUCCESS CRITERIA

#### **GOALS:**

- 1. With this research task you will find out and understand:
- **9**

- the structure and functioning of the heart,
- the importance of the big and small vascular system,
- the structure and importance of blood cells,
- what factors influence heart rate.

In Mahara Learning Journal, Heart functioning, note down subject goals and add your personal goals.

### 2. You will be developing the following skills:

- researching (planning research steps),
- collaboration (engaging at tasks during group work),
- argumentation (developing opinion based on arguments),
- source referencing (citing of sources and their reliability).

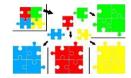
Choose a skill on which you will focus during the course of research and write the goal in Mahara Learning Journal.

## **SUCCESS CRITERIA**

1. Think about the above listed goals and form success criteria:	Griteria
2. Review the success criteria for the chosen skill and select those the	hat relate to the planned goals and activities.

## **Task 2: HOW WILL I ACHIEVE MY GOALS**

## A) Group work.



You will be working in two separate groups: basic and expert groups.

### Group tasks

- In basic groups, you will assign roles and plan the research on factors that influence heart rate.
- In expert groups, each individual will prepare theoretical background of the topic chosen, and will present their findings to the peers in basic groups.

## Step 1: Work in basic groups



Form a group of at least 4 members.

Form at least three questions for each topic that you want to research in your group. Each member of the team choses one topic and joins the expert group.

## Topics:

- a) blood
- b) heart
- c) big vascular system
- d) small vascular system

### Step 2: Work in expert groups



#### PREPARATION OF THEORETICAL BACKGROUND

By means of textbook and other sources (including online sources), find answers to the questions that were set in your basic group. Pay attention on appropriate citing of the sources and their reliability.

Write the answers in a Microsoft Word document and upload it in Mahara Learning Journal, Heart functioning – strategies.

### Step 3: Work in basic groups



Each group member reports his/her findings to the others.

On the bases of the findings presented, think about the factors that influence on human heart rate.

Choose one factor and plan a research in which the influence of the factor chosen could be tested. While planning the research, help yourself with the instructions: Research planning steps.

In Mahara Learning Journal, Heart functioning – strategies, write down the research plan or upload the document.

## **Task 3: FEEDBACK ON RESEARCH PLAN**

Giving feedback on research plans

Choose a basic group of classmates, present research plans to each other and give feedback on the research plans. In Mahara Learning Journal of the chosen basic group, write down the feedback.

Bear in mind that feedback on research plan should be based on arguments relating to success criteria.

#### Task 4: SUPPLEMENTING THE PLAN

Improve your research plan and its conduction.

In basic groups, revise and improve your research plan.



Carry out the research, gather data, analyse them and present them in the defined form (use Microsoft Word/Power Point).

Make a conclusion.

## Task 5: REPORTING

Write down the report on the research in a Microsoft Word document and upload the file in Mahara Learning Journal, Heart functioning – evidence.

Share Mahara Learning Journal, Heart functioning, with your teacher.

In Mahara Learning Journal - Self-evaluation note down the following:

- Do the outcomes make sense?
- What could go wrong and what errors could occur in the course of research?
- If you had to do the research again, would you change anything and how would you carry it out?
- What did you learn from the research? What knowledge and skills did you gain?
- What questions occurred to you during the research?

## Mathematics: Patterns with Olympic rings





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	Mathematics: Patterns with Olympic rings
I. GENERAL DESC	RIPTION
Country	Slovenia
Author/Editor	Amela Sambolić Beganović and Jerneja Bone
School	National Education Institute Slovenia
Subject	MATHEMATICS
LD Title	Patterns with Olympic rings
Year group	12–14 years
Duration	180' (4 school hours)
Short description	In the introductory activity, students individually think about the Olympic rings, the proper use of mathematical terminology and their prior knowledge of the patterns.  Students study patterns in the form of 5 Olympic rings. After the activity, they individually write down their learning goals (personal, mathematical and goals in a relation to chosen transversal skills) and success criteria.  Students present written goals and success criteria to each other in small groups. Its members give feedback to every student. If necessary, students improve or supplement their notes.  In groups, every member presents his/her own research strategies, findings and outcomes. Afterwards, group members compare and evaluate different strategies/findings/outcomes of all members. Together they decide for the most appropriate research approach, write it down in some type of ICT presentation and present it to the other groups.  Groups discuss different research processes and approaches, advantages and disadvantages, and compare their outcomes. At the end of the research, students do self-reflection and self-evaluation in accordance with their learning goals and success criteria. During the lessons on patterns, they fill in Mahara Learning Journal (My Learning Cycle).
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/patterns

## II. Learning Design Macro-level

#### **Digital Tools** (affordances)

- Mahara Learning Journal My Learning Cycle (all phases)
- Presentation (PPT, Prezi ...)
- Tables or spreadsheets

## Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Students identify pattern problem situation, define minor steps and then choose strategies of effective problem solving.
- Student form a research question of their research problem.
- Students discuss necessary and available data of the problem situation.
- Students observe and identify the rule of the pattern. Afterwards, they continue the pattern.
- Students make generalization of the topic and then write an algebraic expression.

# Tasks to develop these competences towards the learning outcomes

- Students identify their prior knowledge in Mahara Learning Journal –
   My Learning Cycle Prior knowledge:
  - o Students find a photo of the Olympic rings and save it.
  - Students come across the naming "Olympic rings" in different texts about the Olympic Games and write down the answer to the following question: Is that mathematically correct?
  - Students use a photo of the Olympic rings as a starting point of researching patterns.
- Students write personal goals and success criteria in association with mathematical content (patterns) in Mahara Learning Journal My Learning Cycle Goals and success criteria (SC). Students present their goals and SC to the other group members and discuss about them. If necessary, students improve or supplement their goals and SC.
- In groups, students plan the research process and present the research plan in Mahara Learning Journal – My Learning Cycle – Strategies.
- Students carry out the research. They create different patterns with Olympic rings. They upload the research report in Mahara Learning Journal My Learning Cycle Evidence.
- Teacher gives feedback to students on their research Mahara Learning Journal My Learning Cycle Feedback.
- Students write self-evaluation How did I work? Mahara Learning Journal My Learning Cycle Self-evaluation.

Skills and competences necessary to reach the expected outcomes

#### **Targeted**

- Work with others on a common task (collaboration skills)
- Plan, monitor, share their learning process (autonomous learning skills)
- Form success criteria and apply them on specific tasks (autonomous learning skills)
- Work with others on a common task (collaboration and communication skills)

#### **Emerging**

- Create an ePortfolio of their learning process (autonomous learning skills)
- Use digital technology to support the tasks (digital skills)

## Leaning outputs - through all stages (assessment)

- Research plan
- Collected material evidence
- The report of the research
- Teacher's feedback and self-evaluation

## III. Learning Design Micro-level

Activity title		ng goals – g Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
circles?  Activity 2:  Fill in Mahara Learning Journal —	- raising awareness of the proper use of mathematical terminology - raising awareness of students' knowledge on	<ul> <li>form a research question</li> <li>plan a research</li> <li>plan the learning process</li> <li>(autonomous learning skills)</li> <li>use digital technology to</li> </ul>	Students read a mathematical task and think about the proper use of mathematical terminology.  Task 2.1:  Students go to Mahara Learning Journal and write down their findings in My Learning Cycle, section Prior knowledge.	mathematical task.	rubber, metal, plastic	Individual work	Students:  - write down their findings,  - create patterns,  - plan a research.  Students' Mahara Learning Journal – My learning Cycle, section Prior knowledge (findings and a photo of the pattern created).
Activity 3:  How can we gain knowledge on patterns by setting learning goals and forming success criteria?  Activity 4:	with the	learning goals - form success criteria for cooperation skills	Task 3.1: Students individually form: - personal learning goals, - learning goals in relation to patterns, - learning goals for cooperation/collaboration skills.  Task 3.2: Students think how to achieve the goals and individually form success criteria.	criteria.  Forms pairs/small groups for discussion		Individual work  Group discussion	Written personal goals  Written learning goals in relation to patterns  Written learning goals for cooperation skills

A salinian atalo		ng goals – g Outcomes	Tasks	Teacher's role	Tools	Methodology –	Learning Outputs
Activity title	Subject area	Transversal skills	(teacher/students)	reacher's role	Tools	Class Arrangement	(expected)
Fill in Mahara Learning Journal – My Learning Cycle, section Setting goals.	Subject area		Task 4.1:  Students go to Mahara Learning Journal, section Setting goals and write down their goals and success criteria.  Task 3.3:  Students work in small groups, every member of the group presents his/her learning goals and success criteria to the others. In a group, students discuss their learning goals and success criteria. In compliance with group discussion, peers and teacher's feedback, students supplement and improve their learning goals and success criteria.  Task 4.2:  Students go to Mahara Learning Journal, section Setting goals and supplement/improve their learning goals and success criteria.	Gives feedback.			Students' individual fulfilment of tasks in Mahara Learning Journal – My Learning Cycle, section Setting goals
presentation of the research.  Activity 6: Fill in Mahara Learning Journal,	research plan - present the research to schoolmates - compare and evaluate different research	learning skills) -work with others on a common task (collaboration and communication skills)	Students individually think how to improve their work according to teacher's feedback on their original research plan (task 1.3).  Task 6.1:  Upload the supplemented or improved plan in Mahara Learning Journal – My Learning Cycle, section Evidence.  Task 5.2:  In pairs/small groups students	with similar patterns (task 1.3).  Supports students during group	Students use plastic, metal, rubber circles when creating patterns or use a computer programme GeoGebra.  Different presentation format/solution	Individual work  Group discussion  Group work	Students individually fill in Mahara Learning Journal – My Learning Cycle, section Strategies  Students individually upload files in Mahara Learning Journal – My Learning Cycle, section Evidence: - the updated research plan,

Activity title		ng goals – g Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
section Strategies and Evidence.	- discussion in small groups/pairs on advantages and disadvantages of various approaches to the research	support the tasks (digital skills)	- their research questions, - strategies of creating patterns, - how to solve the mathematical task.  Task 5.3: Students compare and evaluate different approaches/outcomes.  Task 5.4: Together (in pairs or groups) they choose: - a research question they will be able to solve, - strategies, - if it is necessary, thorough solutions, - the type of presentation.  Task 5.5: Each group prepares a presentation.  Task 6.2: Students go to Mahara: 1. to describe the process/research steps of their work (section Strategies) 2. to upload photos of the outcome (section Evidence).		(PPT, Prezi, poster)  Mahara Learning Journal – My Learning Cycle, sections Strategies, Evidence		- the presentation (paper, e-posters, report, photo of pattern)
Activity 7:  Class/group discussion on advantages and disadvantages of various research approaches		_	Task 7.1:  Two groups of students present their research work.  Task 7.2:  In groups, students discuss advantages and disadvantages of the research approaches presented and compare them with their own ones.	Chooses two presentations with a different research approach.  Moderates, monitors and supports students' activity (group work).	A table of correlation (see table 2 lesson appendix)  Mahara Learning Journal – My	Group work  Plenary  discussion	Students' uploaded a table of correlation in Mahara Learning Journal – My Learning Cycle, section Evidence

Activity title	Learnin	ing goals – g Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills		correlation.	section Evidence	-	
Activity 8:  Write feedback in Mahara Learning Journal – My Learning Cycle, section  Feedback		- work with others on a common task (collaboration and communication skills) - use digital technology to support the tasks (digital skills)	Students write feedback according to their learning goals and success criteria (to students or to the group).	Opens a forum in Mahara for discussion and feedback.  Monitors forum discussion.		Individual work	Students post feedback  Students fill in Mahara Learning Journal – My Learning Cycle, section Feedback
Activity 9: How did I work? — Fill in Mahara Learning Journal — My Learning Cycle, section Self-evaluation		share the learning process (autonomous learning skills) - use digital technology to	Task 9.1:  Students evaluate the achievement of their goals (subject, personal and goals related to transversal skills) in accordance with the success criteria.  Task 9.2:  Student evaluate their contribution to the group work.  Task 9.3:  Student highlight:  - what they are proud of,  - what they will improve regarding group work in the future.  Task 9.4:  Students describe possible difficulties that other students who will solve the same task (deal with the same problems/challenges) might have.	Prepares a questionnaire.	A questionnaire (see lesson appendix table 3)	Individual work	Students upload a questionnaire in Mahara Learning Journal – My Learning Cycle, section Self-evaluation

## IV. Material, resources and students' artefacts

## Table 1

Personal goals	Success criteria	How can I achieve them
Learning goals in relation to patterns	Success criteria	How can I achieve them
Learning goals for cooperation skills	Success criteria	How can I achieve them

## Table 2

	advantages	disadvantages
Group A		
Group B		
Group C		
Our Group		

## Table 3

	I know how	I need help
Create a pattern		
Form a research question		
Find appropriate strategies for problem solving		
Solve the problem		
Answer the research question		
Prepare a presentation		
Present the research process		

## ATS2020 LD Appendix 2 – Assessment Tool – Success criteria of effective communication

## Communication

		••	
ACCEPTANCE	I use different ways of communicating with students and a teacher (writing, talking, a friend-to-friend (F2F),		
	online).		
	I listen to others and accept their opinion.		
	I listen to opinions that are different from mine. I think about them. I do not interrupt my discussion partner.		
INTEGRATION	I can present arguments to support my statements.		
	I give constructive feedback.		
	I communicate with others by asking questions.		
	If I do not agree with my discussion partner, I try to be polite.		
	I am honest and straightforward while communicating with others.		

## ATS2020 LD Appendix 2 – Assessment Tool – Success criteria of successful collaboration

## Collaboration

			( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( ) ( )
ACCEPTANCE	I accept the ideas of others and merge them with the ideas of the group.		
	I am aware of the fact that every group member is important for the success of the group as a whole.		
	I change my opinion due to strong arguments from the other group members.		
INTEGRATION	I participate constructively during the group work. I express my views and listen to the others, even if		
	we disagree.		
	In conflict situations, I solve the problems that emerge during negotiations.		
	When I cooperate with others, I believe that every member must contribute an equal part.		
	I am aware of the importance of the well-being of all group members.		
	I take responsibility for the consequences of my actions during group work.		

#### ATS2020 LD Appendix 2 – Assessment Tool – Self-evaluation – How did I work?

Look at your research work and fill in the spreadsheet. Read the following statements and put a tick in the column if you know how to do the activity or if you need any help. Write precisely what kind of help would you need.

	I know	I need help
Design a pattern.		
Form a research question.		
Choose appropriate solving strategies.		
Solve the problem/answer the question.		
Present your research work.		

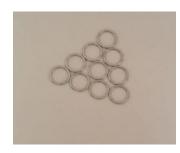
Evaluate your work in a group. Evaluation should be based on set learning goals and success criteria for collaboration skills.

Highlight one of the successful elements of the learning process and what will your improve regarding group work in the future.

Please predict eventual problems or challenges of the task on the Olympic rings pattern.









## History: The Romanesque through the Road to Santiago





I. GENERAL DESC	History: The Romanesque through the Road to Santiago  I. GENERAL DESCRIPTION				
Country	Spain				
Author/Editor	María Pazos and Milagros Trigo				
School	CPI PLurilingüe O Cruce				
Subject	HISTORY				
LD Title	The Romanesque through the Road to Santiago				
Year group	12-15 years old, Lower Secondary				
Duration	6 Hours				
Short description	Students in this unit learn about Romanesque style: architecture, sculpture, and painting. They identify the main elements in Romanesque style, use the concepts introduced in the theme in the properly way (definitions) and refer to main Romanesque buildings/sculptures/paintings. In addition, they implement the knowledge about the Road to Santiago and the culture that was built around it and create a Website integrating their findings and knowledge.				
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/Romanesque				

## II. Learning Design Macro-level

#### **Digital Tools** (affordances)

- e-portfolio/ Rubric
- Video and or any web format
- Padlet
- WordPress

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- To identify the main elements in Romanesque style: architecture, sculpture, painting.
- To use the concepts introduced in the theme in the properly way.
- Refer to main Romanesque buildings/sculptures/paintings.
- To implement the knowledge about the Road to Santiago and the culture that was built round it.
- Create a Website integrating the information about Romanesque characteristics.

# Tasks to develop these competences towards the learning outcomes

- Learn all about the Romanesque style, main buildings...
- Search and select information about the Romanesque
- Identify the main elements of Romanesque architecture
- Collect main Romanesque sculptures / paintings
- Create a virtual gallery of main Romanesque buildings in the Road to Santiago
- Choose a sculpture from the Road to Santiago and make a guided visit to it. (use your creativity to present it)
- Group assessment using the white board
- Create websites
- Use e-portfolio for assessment

### Leaning outputs - through all stages (assessment)

- Definitions of the main elements in Romanesque style: architecture, sculpture, painting.
- A number of digital recordings describing different Romanesque buildings
- Work collaboratively in order to produce information about the Romanesque and the Road to Santiago
- Different websites created by students to formally present their findings.
- Be able to express what the group have learnt through web format. Different websites.
- E-portfolio/ rubric, and my learning for assessment and group assessment

Skills and competences necessary to reach the expected outcomes

## **Targeted**

- Think carefully and use the skills and knowledge I already have.
- The Romanesque its meaning, origin and area of influence
- The architecture, sculpture and painting in Romanesque style, characteristic elements and its functions
- The Romanesque in the Road to Santiago

### **Emerging**

- Be open and responsive to new and diverse perspectives
- Learn with and from others (teamwork)
- Managing your feelings about learning and the people you learn with.
- Communicating your knowledge through different formats
- Use ICT, do research work and to communicate your knowledge.
- Create and manage the ePortfolio

## III. Learning Design Micro-level

Activity title		ng goals – g Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills	(teacher/students)			/ d.i.gement	(expected)
In groups of four students explore the website and identify the main elements in Romanesque style: architecture, sculpture, and painting.  Groups share opinions through Padlet in order to reach the definitions	Identify the main characteristics of the Romanesque: architecture, sculpture, painting	<ul> <li>Collaborative learning</li> <li>Creativity</li> <li>Learning to learn</li> <li>ICT</li> </ul>	website	Provide students the website http://centros.edu.xunta.es/cpiocruce/ materiales/2arteenglish/index.html Divide the class in groups Ask students to produce a definition of the Romanesque: architecture, sculpture, and painting. Provide students a Rubric for self-assessment	Personal computer Padlet	-Teacher uses learner' centred approaches -Learning by doing -Students learn through exploring information and feedback that comes from activity results	Definitions of the main elements in Romanesque style: architecture, sculpture, painting.
Search and collect main Romanesque buildings Role-play: you are a guide and you have to describe the building to visitors. It can be recorded by each member of the group and save it as podcast. Students upload it in the personal e-portfolio	main Romanesque	Communicate the others his/her knowledge about Romanesque	Search and collect main Romanesque buildings In groups describe	Romanesque building.  Ask students to prepare a role-play where students have to act as guide in a visit to a Romanesque building.  Optional: suggest students to record		Learning by doing.	A number of digital recordings describing different Romanesque buildings

Search for information and stablish the relationship between Romanesque and the "Road to Santiago" In groups create a website to formally present your findings	between the "Road to Santiago" and Romanesque	- Team work - Creativity - ICT	In groups identify the links between Romanesque and "Road to Santiago" Produce a website about the Romanesque and the "Road to Santiago"	Ask students to identify the links among "Road to Santiago" and Romanesque  Ask students to produce a website about the "Road to Santiago and Romanesque"  Support students activities		Learner' centred approaches Learning by doing Students collaborate on end-of —project presentations/ products to formally present their findings	students to formally present
Write the on the white board the criteria to assess the websites One group assess other group work including comments	on the products presented to formally communicate	<ul><li>Creativity</li><li>ICT</li><li>Teamwork</li><li>Communication</li></ul>	Get an agreement for the whole class to assess the Website Put them all together in the whiteboard Produce a document about other group work Students fill in the Rubric.	Collaborate with the groups and with the class to select the criteria for assessment Provide feedback to students: about group assessment and the rubric	computer Padlet	Learning from feedback and implementing critical thinking	Documents assessing other group works produced by students groups  Assessment evidences

## English as a Foreign Language: Family names





	English as a Foreign Language: Family names
I. GENERAL DESC	RIPTION
Country	Spain
Author/Editor	Milagros Trigo
School	CPI Plurilingüe O Ceuce
Subject	ENGLISH AS A FOREIGN LANGUAGE
LD Title	Family Names
Year group	Secondary School, first year
Duration	6 lessons
Short description	Students in this lesson make a presentation using the Simpson family, to learn the Saxon genitive. Every student talks about his/her family. Students read and represent the tale "The enormous turnip" and write very simple sentences. Students in pairs talk about their families and the British Royal family. In addition, students in pairs produce the text and they create the scenario to produce a dialogue using Puppetpals and then present their works to the class (video).
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/family-names

## **II. Learning Design Macro-level**

#### Digital Tools (affordances)

- Personal computer
- **IPad**
- Puppetpas2
- whiteboard

## Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Listen and understand general and specific oral communication in different situations, adopting an attitude of respect and cooperation with the speaker.
- Communicate orally in everyday life situations with some level of autonomy.
- Read and understand different texts of appropriate level according to the abilities and interests of students in order to extract general and specific information and use reading as a source of pleasure and personal enrichment.
- Write simple texts for various purposes on different topics using appropriate resources with cohesion and coherence.
- Use effectively the phonetic, lexical, and functional, structural basic components of the foreign language in real communication contexts.
- Show a receptive professional attitude and selfconfidence in one's ability to learn and use a foreign language.

# Tasks to develop these competences towards the learning

- Make a presentation using the Simpson family, to learn the Saxon genitive
- Every student talks about his/her family (in this session we work with the class group)
- Students read and represent the tale "The enormous turnip" and write very simple sentences.
- Students in pair talk about their families and the British Royal family, also with the class
- Students in pairs produce the text and they create the scenario to produce a dialogue using Puppetpals and they present their works to the class (video).

## Leaning outputs - through all stages (assessment)

- Presentations to teach Saxon genitive and vocabulary related to family.
- Videos with tale performances
- A contest to practice foreign languages
- Videos made with Puppetpals about famous people and family
- Assessment criteria
- Comments on different videos
- Assess the regularity and consistency of daily work
- Peer assessment (group) using white board
- self-assessment
- E-portfolio

## Skills and competences necessary to reach the expected outcomes

#### Targeted

- Understand and express ideas
- Understand and express feelings and needs
- Use various forms of discourse in communication
- Learn to speak and interact in different languages
- Reflect on a general language learning through the comparison between the different languages that the student
- Be able to do a good expressive reading, understand what they read and enjoy reading
  Select and evaluate the information
- obtained
- Write different types of texts
- Transform information into knowledge
- Creation of communicative contexts:
- Videos, chats, forums, email, blogs, etc.

#### **Emerging**

- Conscious use of learning skill
- Use of foreign language as an instrument of universal information access
- Collect, present and interpret information about life situations
- Promote social positive attitudes such as cooperation through shared work (cooperative work)
- Know and use basic programs ( Puppetpals)
- To acquire skills to develop themselves own intellectual abilities
- Analyse and evaluate the errors in the process of personal learning
- Analyse other group activities
- Learn from feedback

Activity title		ng goals – Outcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills	(teacher/students)			Arrangement	(expected)
<ul> <li>A little talk about family names students learn the family names using Saxon genitive</li> <li>Students in groups make a presentation about the Simpsons using the Saxon genitive</li> <li>A Student asks and the other answers</li> </ul>	<ul> <li>Get knowledge about the Saxon genitive</li> <li>Get to know vocabulary: family</li> </ul>	<ul><li>Creativity</li><li>Learning to learn</li><li>ICT</li><li>Communication</li></ul>	<ul> <li>Students prepare a         Power Point         presentation with         family names and         Saxon Genitive.</li> <li>A student leads the         activity and other         students answer         the questions</li> </ul>	<ul> <li>The teacher conducts the learning process.</li> <li>The teacher makes possible students learn by doing</li> <li>The e teacher streamlines oral practice</li> <li>Assess the regularity and consistency of daily work</li> </ul>	computer	<ul> <li>Learners centred approaches</li> <li>Active learning</li> <li>Teamwork</li> </ul>	<ul> <li>Oral activities using the white board</li> <li>Presentations to teach Saxon genitive and vocabulary related to family.</li> </ul>
The tale "The enormous turnip"  Students collaboratively tell the tale with the support of the whiteboard		- Communication	group records the	<ul> <li>The teacher promotes students' active role in working the tale.</li> <li>The teacher presents didactic proposal and supports student with oral language</li> </ul>	IPad	Proactive learning	<ul> <li>Memory and oral practical activities.</li> <li>Videos with tale performances</li> </ul>
<ul> <li>Each student chooses a Royal family member and writes about him or her</li> <li>Students with their personal computer write about one of the royal family members,</li> </ul>	Students should know about:  - The British Royal Family and the vocabulary round it  - Students should be able	<ul> <li>Communication</li> <li>Creativity</li> <li>The error as element of the learning process</li> </ul>	Students write descriptions of a member of the B. Royal Family ( they choose a paper to see the person) Contest: Students have to identify member of	<ul> <li>Teacher provides the names of Royal Family members for students choose.</li> <li>The teacher moderates the contest and makes students reflect on groups work</li> </ul>	e-portfolio	Learning by doing  learning from feedback	A contest to practice foreign languages

Activity title		ng goals – Outcomes Transversal skills	Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
they can search for information if needed. Students read their description and the class group tries to guess who it is	to express ideas using simple sentences		the Royal Family described by other group member Each student makes a self-assessment	Teacher provides questions for self - learning assessment			
Make a video using iPads with family names  - Students write a dialogue and produce a video using puppetpals2.  - They have to practice the dialogue and when it is ready they build the scenario and record the sound	know how to	- Creativity	<ul> <li>Students have to choose a personality/celebri ty to write a dialogue. and produce a video</li> <li>Students practice the dialogue.</li> <li>Students create a scenario and record the conversation between two personalities.</li> <li>Students record and save the video</li> </ul>	<ul> <li>Ask students to write a dialogue with a famous person or celebrity, using family names.</li> <li>Provide students with the assessment criteria and discuss them with students.</li> <li>Review the students' tests and oral practice.</li> <li>Support students' activities.</li> <li>Review the final product</li> </ul>		<ul> <li>Proactive learning</li> <li>Use all knowledge to produce a final product</li> </ul>	Videos made with puppetpals about famous people and family
<ul> <li>Students in pairs present their videos</li> <li>A group of four students asses them. One student writes the comments and reads it for the class</li> <li>E-Portfolio development.</li> <li>Individual pages</li> </ul>	- Present their works in foreign language		assessment	the videos assessment	– iPads Apple TV	<ul> <li>Learning from feed-back</li> <li>Reflection on own learning process</li> </ul>	<ul> <li>Assessment criteria</li> <li>Comments on different videos</li> </ul>

### **SPAIN**

### English/Spanish Galician Language: Book trailer- Video story telling





I. GENERAL DESC	English/Spanish Galician Language: Book trailer- Video story telling
Country	Spain
Author/Editor	Milagros Trigo
School	CPI Plurilingüe O Cruce
Subject	ENGLISH/SPANISH GALICIAN LANGUAGE
LD Title	Book trailer- Video story telling
Year group	10-16 years old
Duration	six hours
Short description	The creation of Book trailers and Video storytelling, is a co- constructed learning opportunity where teachers and students are engaged in an open, ongoing, constructive dialogue, developing competencies, creativity and new skills. Every part of the teaching and learning process stimulates a cultural growth and ethical conscience, and allows the students to compare results and products for a constructive working outcome. Digital storytelling is a good tool to approach any curricular topic, enhancing the cross-curricular, digital and language competences. Children get involved in the stories and become familiar with the plot by listening, acting, feeling the story and re-creating it by using multiple techniques. The narration stimulates positive attitudes towards foreign language, which is perceived as a real and complete experience. The book trailer is a handy tool easy to use and to be implemented: it has a short-term, immediate impact. The plot of the book is made appealing and attractive with the use of the movie trailer model. The book trailer stimulates creative thinking and digital skills.
Hosted (URL)	Lesson: <a href="https://mahara.ats2020.eu/view/view.php?id=13722">https://mahara.ats2020.eu/view/view.php?id=13722</a> Learning Design: <a href="https://resources.ats2020.eu/resource-details/LEDE/Video">https://resources.ats2020.eu/resource-details/LEDE/Video</a> story telling

#### **Digital Tools** (affordances)

- Internet access
- My Learning (Journals)
- Personal computer
- IPad

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Be able to read few books and in groups of four select one
- Be able to read/share and the text in a way appropriate to the age/ability of students
- Be able to identify which parts of the book will be effective in a book trailer; produce a storyboard for the book trailer
- Be able to process information and build new one
- Learn to create a script for our video
- Get to know which tools to use for creating our book trailer
- Learn to enjoy reading and cinema in foreign language.

# Tasks to develop these competences towards the learning outcomes

- Main steps and decisions:
- how you want your video to represent your book?; tools to be used, narration, sound effects, music, editing the final product, Publish your final product, making reference to your book
- Creating a script for our video
- Collecting different materials for our book trailer
- Getting familiar with different video editing tools:
- Movie Maker
- IMovie
- Chroma
- Slow motion shutting, Time lapse
- YouTube

#### Leaning outputs - through all stages (assessment)

- Enjoy reading
- Make plans about own learning
- Book trailers with different ICT tools
- Comment different book trailers
- Assess the regularity and consistency of daily work
- Peer assessment (group) using white board
- self-assessment
- E-portfolio

# Skills and competences necessary to reach the expected outcomes

#### Targeted

- Understand and express ideas
- Be able to do a good expressive reading, understand what they read and enjoy reading
- Use various forms of discourse in communication
- Learn to speak and interact in different languages
- Process information and build new knowledge
- Write different types of texts
- Creation of communicative contexts:
- Videos,

#### Emerging

- Conscious use of learning skills
- Use of foreign language as an instrument of universal information access
- Collect, present and interpret information about different situation
- Promote social positive attitudes such as cooperation through shared work (cooperative work)
- Know and use basic ICT programs ( Puppetpals)
- To acquire skills to develop themselves own intellectual abilities
- Analyse and evaluate the errors in the process of personal learning
- Analyse other group activities
- Learn from feedback

Activity title		Learning goals – Learning Outcomes		Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)	Assessment tool	
	Subject area	Transversal skills	(teacher/students)			Arrangement	(expected)		
Activity 1: Critical reading of a Book	Spanish literature	Critical thinking Reading literacy Team work Autonomous learning	Students read story individually and for the whole class/group Students in teams draw up the storyboard on the book trailer	The teacher guides the students	Books	Learning by doing	<ul><li>Enjoy reading</li><li>Make plans about own learning</li></ul>	<ul> <li>Monitoring sheets;</li> <li>Inter-appreciation of the works and interpretation</li> </ul>	
2: Create the script and the scenario	Use various forms of discourse in communication Process information and build new knowledge. Students in teams draw up the storyboard on the book trailer	interpret information about	They decide which contents	guides	Personal computers Books	Engagement, exploration, explanation, elaboration and assessment	The script and the scenario for the book trailer	Rubric	
/puppet pals to	stories and to	- ICT literacy - Digital Rights and Digital literacy	Students shoot their videos or make small animations using Papperpals	_	Camera, mobile, IPad	Learning by doing	become familiar with aspects like depth of field, frame rate, framing, lighting, colour, camera movement and green screen technology etc.	Observation sheets	

Activity title		Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs (expected)	Assessment tool
		Subject area	Transversal skills	(teacher/students)			Arrangement	(expecteu)	
4. Edi video	_	Digital competences	- ICT literacy Creativity	students and teachers work side by side producing the video	As guide	Computers	Learning by doing	a book trailer	observation sheet
5.Pres their trailer		enjoying reading Communicate using audio-visual resources	Communication skills	Students in groups present their videos. Other group assess them according to agreed criteria		computer and projector Apple TV	Learning by doing	Plenary discussion	Peer assessment

English/Spanish Galician Language: Book trailer- Video story telling

### IV. Material, resources and students' artefacts

#### **Lesson Screenshot**

#### A Booktrailer- Video story telling

These are the key elements of our teaching practice on Book Trailers, main tasks:

**Reading and literary narrative**: this helps to acquire new competences and skills. Students are able to extract own ideas and communicate experiences, ideas and values

The critical reading of the book: Students choose the elements of the book that could be integrated in the video

Students write the script: Students in groups write texts for their videos, in some cases students did a song from the text and they perform it, other times students did a piece of theatre which they performed and was recorded in video. Some students also created tales and did an animated film using Puppet Pals, other way of produce their tales was making dawings and using pictures to make their videos. To produce videos students used Moovie Maker and Imoovie.

**Shooting of a film:** Sometimes students learn to shoot their films, they are very familiar using iPads or phones, but as the last year the sound was not very good we decided to buy a videocamera

**Digital Rights & Responsibilities:** Teachers must help students to know how the technology must be used in an appropriate manner and we made sure basic digital rights must be discussed, and understood in the digital world when they produce their own works.

**Digital Security (self-protection):** we prepare students to take elctronic precautions to guarantee safety, students learnt about the need to have virus protection, backups of data, and control of the equipment

Editing a film: Students edit their films using movie Maker or YouTube editor, this activity is easy and motivating for students.

**Assessment**: Students in groups like they produce the book trailer present their booktrailer in the whiteboard, before the whole class writes the assessment criteria. The teacher point out which group is going to do the

Students' works: https://www.youtube.com/watch?v=d3FPE5CDUnE&feature=youtu.be

#### A Students works

#### Windmills



#### A Sancho

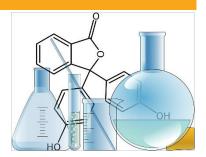


Material/resources for Learning Desig	n			
	Description	Туре	File name / URL	Language
Material to support tasks and activities	Steps to create a book trailer	pdf	http://www.edu.xunta.gal/centros/cpicruce/system/files/Keyelements.pdf	English
(Description of tasks/activities, rubrics, worksheets, etc.)	Rubric	pdf	http://www.edu.xunta.gal/centros/cpicruce/system/files/Rubric.pdf	English
Students' artefacts	1.	Video	https://www.youtube.com/watch?v=OmI4YIB1aOY	English
(Products, ePortfolios, etc.)				
	2.	Video	https://www.youtube.com/watch?v=2Vs9f60EpyM	English
	3.	Video	https://www.youtube.com/watch?v=d3FPE5CDUnE&feature=youtu.be	English
	Students doing a Book trailer	Photo	http://www.edu.xunta.gal/centros/cpicruce/system/files/stopmotion.jpg	
Implementation photos/videos  (as evidence of the learning taking place)	Students talking about a book at the library	photo	http://www.edu.xunta.gal/centros/cpicruce/system/files/biblio.JPG	n/a

### **SPAIN**

### Chemistry and Physics: Chemical Bonding





I. GENERAL DESC	Chemistry and Physics: Chemical Bonding
Country	Spain
Author/Editor	Enrique Cao, Jesús Fidalgo
School	IES Rosalía de Castro
Subject	CHEMISTRY AND PHYSICS
LD Title	Chemical Bonding
Year group	13-16 years old, 3rd Year Secondary
Duration	four teaching hours
Short description	The proposed activities seek to be able to recognize the different ways of linking the atoms to form elements and compounds. Students should also be able to identify the types of link from the chemical formula and the physical properties of the substances.
Hosted (URL)	Lesson: <a href="https://mahara.ats2020.eu/view/view.php?id=14615">https://mahara.ats2020.eu/view/view.php?id=14615</a> Learning Design: <a href="https://resources.ats2020.eu/resource-details/LEDE/chemical_bonding">https://resources.ats2020.eu/resource-details/LEDE/chemical_bonding</a>

#### **Digital Tools** (affordances)

- Internet access
- My Learning (Journals)

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Relate the properties of metals, non metals and gasses within the periodic table and with their tendency to form ions or share electrons, taking as reference the nearest noble gas.
- Identify, from the chemical formula, covalent, ionic, and metallic substances.
- Explain the process of joining the corresponding geographic information, using adequate animation for preparation.
- Explain the process of formation of simple molecules (hydrogen, water, oxygen, nitrogen, methane ...) from the sharing of electrons.
- Relate the physical properties of substances with their type of link.
- To know the chemical formula of elements and compounds of frequent use, and to classify it according to its physical properties.

## Tasks to develop these competences towards the learning outcomes

- Brainstorming conducted as a class group.
- Collective and individual analysis of the different types of chemical bonds.
- Choice of an element or compound of those used in previous units for study in the group.
- Organization of the working group: distribution of functions.
- Research in reliable documentary sources (digital and analogue).
- Performing a laboratory activity related to the physical properties of the substances.
- Creation of organized scientific reports according to the models and following the criteria of adequacy, cohesion and coherence.
- Evaluation and proposal for improvement of the same by colleagues.
- Transcription, edition and publication of the same in a page of Mahara.
- "My learning": The students reflect about the objectives, tools and strategies at your service, difficulties, successes and the results obtained (evidences).

### Leaning outputs – through all stages (assessment)

- Reflection in a collective and individual way on the different forms of liaison of the atoms to form elements and compounds.
- Publication of a scientific report on the substance (element and / or compound) chosen to analyse. Brief oral description of the work.
- Peer assessment by rubric (Google Forms).
- Self-assessment of the process, difficulties encountered and results obtained in the "Learning" section.

# Skills and competences necessary to reach the expected outcomes

#### Transversal Skills

- 1. Informational literacy (AI) .2.Collaboration / Communication (C) .3.Creativity / Innovation
- (I) .4.Digital literacy (AD) .5.Self learning (AU) .Key competences
- 1.Competence in linguistic communication (CCL).
- 2. Mathematical competence and basic skills in science and technology (CMCCT).
- 3. Digital competence (CD).
- 4. Learning to learn (CAA).
- 5. Social and civic competences (CSC).
- 6. Sense of initiative and entrepreneurial spirit (CSIEE).
- 7. Awareness and cultural expressions (CCEC). Most of the key competences will be developed in the process of putting the UD into practice. In addition, the variety in the reports to be completed will complete those less developed as the CCL.

#### Digital tools:

Own computers or mobile devices. Computer classroom. Digital blackboard. Audiovisual equipment. Google Apps for Education. Mahara.

Activity title Learning Goa	comes Tasks (teacher/students	Teacher's Tools	Methodology  - Class  Arrangement	Learning Outputs	Assessment tool
Activity 1  A.1.1. Brainstorming: Why do atoms combine? introduction: Present the learning cycle (UD): objectives, activities, instruments and evaluation procedures.  A.1. 3. Video about the chemical link https://www.youtube.com/watch?v=OTgpN6 20u24 (2.5min).  Once the quick reading is finished (a questionnaire is included to be completed at home), the requirements for establishing a chemical link are discussed / discussed. • A.1.  2. Present the learning cycle (UD): objectives, activities, instruments and evaluation procedures. • A.1. 3. Video over the chemical link https://www.youtube.com/watch?v = OTgpN62ou24 (2.5min).  • A.1.4. Complete the link questionnaire •	Transversal skills  Transversal skills  The key competences will be developed in the process of putting the UD into practice The transversal skills  1.Informational literacy (AI)  2.Collaboration / Communication (C)  3. Creativity / Innovation (I)  4.Digital literacy (AD)  5.Self learning (AU)  Key competences  1. Competence in linguistic communication (CCL).  2. Mathematical competence and fostering participate in course of the tage of the tage of the participate in fostering participate participate participate participate participate participate participate parti	tive the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through digital board and teacher's computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through digital board and teacher's computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the learning process computer.  It is the students through the students through the learning process computer.  It is the students through through through through the students through the students thr	- Class Arrangement  Interaction in the classroom: group-class.  Work in groups of 4  Work in pairs.  Individual work.	_	

Activity title	Learning goals – Learning Outcomes		Tasks Teach (teacher/students) rol		Tools	Methodology – Class	Learning Outputs	Assessment
	Subject area	Transversal skills	(teacher) statement	1010		Arrangement	(expected)	1001
		3. Digital competence (CD) 4. Learning to learn (CAA). 5. Social and civic competences (CSC). 6. Sense of initiative and entrepreneurial spirit (CSIEE). 7. Awareness and cultural expressions (CCEC).	activating its previous knowledge.  Hypothesis formulation.  - AL.1.2 Collaborate in the determination of the objectives, participate in the creation and development of activities and of the procedure of assessment (rubrics).  - AL.1.3 Following the protocols established in the classroom, they use computers of the IT classroom to explore basic characteristics of the Mahara platform and Google Classroom  - AL.1.4 Participate in the assessment process, completing their journal learning (self-assessment)					
Activity 2: A.2.1 Covalent link.  Video about the covalent link: <a href="https://www.youtube.com/watch?v=LkAykOv1foc">https://www.youtube.com/watch?v=LkAykOv1foc</a> Complete the activity questionnaire.  A.2.2 Lewis structures  Video on Lewis structures: <a href="https://www.youtube.com/watch?v=Sk7W2VgbhOg">https://www.youtube.com/watch?v=Sk7W2VgbhOg</a> (4 min)	<ul> <li>Theme</li> <li>Specific recognition in a collective and individual way of the basic characteristics of a mixture / dissolution / pure substance.</li> </ul>	<ul> <li>Cross-disciplinary competences</li> <li>Learn to learn.</li> <li>Social and civic competence.</li> <li>Respect and interest in the opinions of others.</li> </ul>	- P.2.2 The teacher supports the	teacher	Chalk. Cannon, digital board and teacher's computer. Computers with	Learning by doing	Research in reliable documentary sources (digital and analogue).	Observation of the process by the teacher / student body. Active participation

Activity title	Learning go Learning Ou	tcomes	Tasks (teacher/students)	Teacher's role	Tools	Methodology - Class	Learning Outputs (expected)	Assessment tool
Complete questionnaire to send to google classroom A.2.3 General review questionnaire A.2.3. Chemical formulation II (covalent binary compounds) KAHOOT IT!	Verification refutation of the initial intuitions and settlement of knowledge the classification of the subject. Deepening in the contrasted and shared knowledge of the classification of the subject. Continuation in the familiarization with the Mahara platform	Transversal skills  - Information literacy.  - Collaboration / Communication.  - Digital literacy.	pivoting as necessary between the groups.  P.2.3 The teacher makes observations about the performance of the students during the oral exchange.  Perform the proposed activities.  AL.2.2 Once the activities have been carried out in a large and small group, they will reflect what they have learned in the group's blog.  AL.2.3 The students reflect individually on the task carried out in the "Learning" section of Mahara.		internet connection Chemistry laboratory.	Arrangement	(expected)	of the students during the interaction.  Learning diary ("My learning")
Activity 3:  A.3.1 Physical properties  Properties of ionic substances: video https://www.youtube.com/watch?v=TxHi5Ft MYKk (4 min)  Comment / debate about the video  Properties of covalent substances: video 1 (simple molecules) https://www.youtube.com/watch?v=OdijwnB RNp0 (2 min)	Theme: Specific recognition in a collective and individual way of the basic characteristics of mixtures / solutions / pure substances. Deepening in the contrasted and shared knowledge of the procedures to separate the components of a mixture / dissolution.	<ul> <li>Information literacy</li> <li>Collaboration / Communication</li> <li>Digital literacy.</li> <li>Autonomy</li> <li>Creativity.</li> </ul>	<ul> <li>P.3.1 The teacher presents the activity and manages tasks and times.</li> <li>P.3.2 The teacher supports the development of the group activity pivoting as necessary between the groups.</li> <li>P.3.3 In his journey, the teacher makes observations about</li> </ul>	students in the learning	Wax and chalk.  Cannon, digital board and teacher's computer.  Computers with internet connection .	Interaction in the classroom: group-class. Work in pairs. Individual work	Relate the physical properties of substances	Observation of the process by the teacher / student.  Active participation of the students during the interaction.

Activity title	Learning go Learning Ou Subject area		Tasks (teacher/students)	Teacher's role	Tools	Methodology  - Class  Arrangement	Learning Outputs (expected)	Assessment tool
Video 2 (giant structures) https://www.youtube.com/watch?v=FKTsQOp LwdE (3 min)  "Comment / debate about the videos "Properties of metallic substances: video https://www.youtube.com/watch?v=wNQqYa 8b9XQ (3 min)  "A.3.2 Acid formulation for common use "A.3.3. Preparation of laboratory activity.  "Review of the activity sheet. "A.3.4. Laboratory activity "A.3.5. Presentation of laboratory report	Continued familiarization with the.		the performance of the students during the oral exchange.  - AL.3.1 Students perform the proposed activities.  - AL.3.2 The separation of the components of their corresponding solutions is done in groups of 4.  - AL.3.3 The students reflect individually on the task carried out in the section "Learning.		Chemistry laboratory.			Learning diary ("My learning)
Activity 4: • A.4.1 Review - Video: https://www.youtube.com/watch?v=QIfTT xLo (3 min) - General review of the content of the subject • A.4.2 Questionnaire for evaluation From the results obtained in the activity • A.4.3 Self-assessment / evaluation of activities • A.4.4. Written test about the contents of the unit	Theme: Specific recognition in a collective and individual way of the factors that affect solubility. Development in the contrasted and shared knowledge of the expression of the concentration of solutions. Continuation in the familiarization with the Mahara platform	<ul> <li>Transversal competencies:</li> <li>Alphabetization informational.</li> <li>Collaboration / Communication.</li> <li>Alphabetization digital.</li> <li>Cooperation.</li> <li>Autonomy.</li> <li>Creativity.</li> </ul>	- P.4.1 The teacher	students	Chalk.  Cannon, digital board and teacher's computer.  Computers with internet connection .  Chemistry laboratory.	Interaction in the classroom: group-class. Work in pairs. Individual work	Publication of a scientific report on the substance (element and / or compound) chosen to analyse. Brief oral description of the work.	Observation of the process by the teacher / student body.  Active participation of the students during the interaction.  Learning diary ("My diary)

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class	Learning Outputs	Assessment tool
	Subject area	Transversal skills	(teacher) statements)	10.0		Arrangement	(expected)	
			<ul> <li>AL.4.1 Students perform the proposed activities.</li> <li>AL.4.2 Summaries on the proposed video are done in pairs.</li> <li>This time they will take turns in each pair to complete a common table of differences and similarities, on the concepts seen, on the board.</li> <li>AL.4.3 The students reflects individually on the task carried out in the "Learning" section of Mahara.</li> <li>AL.4.4 The students, individually, complete the written test on the contents of the unit.</li> </ul>					

### IV. Material, resources and students' artefacts

### Material/resources for Learning Design

	Description	Туре	File name / URL	Language
Material to support tasks and activities	Proposal	Mahara	https://mahara.ats2020.eu	English
(Description of tasks/activities, rubrics, worksheets, etc.)		videos	/view/view.php?id=14616	
worksheets, etc.)	Binary ionic compounds.	Video	https://mahara.ats2020.eu	English
			/view/view.php?id=14616	
	Covalent bonding	Mahara	https://mahara.ats2020.eu	English
			/view/view.php?id=14613	
	Learning activities	Mahara	https://mahara.ats2020.eu/	English
			view/view.php?id=14613	
Students' artefacts	1.	Questionnaire	Done with google docs	English
(Products, ePortfolios, etc.)				
	2.	Learning reflection	<b>Complete your notes</b> about the different properties of substances.	English









# MACRO-LEVEL LEARNING DESIGNS

### **BELGIUM**

### English as a Second Language: Food and Drink





### English as a Second Language: Food and Drink

I. GENERAL DESCRIPTION	
Country	Belgium
Author/Editor	Ann Bosmans
School	KTA Vilvoorde
Subject	ENGLISH AS A SECOND LANGUAGE
LD Title	Food and drink
Year group	Secondary Education (13-14 years)
Duration	Two teaching hours
Short description	Learning vocabulary food and drink-Reading a menu-Booking a table-Preparing a meal
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/food_drink

#### **Digital Tools** (affordances)

- Padlet
- Quizlet
- YouTube
- Canva
- Online dictionary

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Using vocabulary of food and drink: every day meals, kitchen materials, vegetables, fruit, meat, fish
- Read a menu
- Book a table
- Order a meal

#### Differentiation

- Read and follow a recipe
- Interpret food advertisements

# Tasks to develop these competences towards the learning outcomes

- Training voc. by using Flash cards/Quizlet
- Discussing voc. in group > selection for presentation
- Construct a Padlet of your favourite food
- Construct a menu with Canva
- Book a table > select a fragment on YouTube to train yourself
- Construct a dialogue 'at the restaurant' > present it
- Make a learning journal > e-portfolio

#### Leaning outputs - through all stages (assessment)

- Vocabulary lists
- Menus
- Meals
- Learning journal / Portfolio
- Padlet

# Skills and competences necessary to reach the expected outcomes

#### Information literacy

- Asking questions
- Responding to curiosity by digital search strategies
- Presenting the retrieved information (dialogue, portfolio)
- Connects old and new information

#### **Autonomous learning**

- Sets his goals and strategies, transfers it into action
- Analyses the information to generate solutions
- Evaluates product and process

#### **Collaboration and communication**

- Integrates knowledge
- Cooperation with peers, interaction, results
- Communication with your target group, by using media

#### **Creativity and innovation**

- Using the knowledge to realize ideas

### **BELGIUM**

### Natural Science: Puberty





	Natural Science: Puberty
I. GENERAL DESC	CRIPTION
Country	Belgium
Author/Editor	Anja Bal
School	Leefschool t Zandhofje Zandhoven
Subject	NATURAL SCIENCE/BIOLOGY
LD Title	Puberty
Year group	Primary School (sixth grade)
Duration	Two teaching hours
Short description	Features and vocabulary of puberty
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/puberty
Learning design in Dutch:	https://resources.ats2020.eu/resource-details/LEDE/puberty2

#### Digital Tools (affordances)

- EdPuzzle
- Todaysmeet
- Answergarden
- Ppt or Prezi

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Features of the phases of development
- Recognize and describe changes of the human body of boys and girls, during puberty
- Recognize that puberty not only influences physical changes of the human body
- Write a text (e.g. a poetry) about puberty and support it with illustrations

# Tasks to develop these competences towards the learning outcomes

- Construct a word puzzle (cloud) with several words related to puberty
- Make an overview of changes of the human body in a presentation (in group)
- Identify non-physical changes by analysing visual material and discussing in a brainstorm session
- Sharing personal feeling and opinion
- Writing and illustrating poetry (text)
- Sharing and reading poetry (text)
- Feedback by peer evaluation

# Skills and competences necessary to reach the expected outcomes

#### Targeted

- Collect, select and share information
- Collaboration and communication

#### **Emerging**

- Communication and presentation skills
- Writing skills
- Illustrate poetry (text) with online material
- Monitoring learning process by using eportfolio
- Sharing feedback

#### Leaning outputs - through all stages (assessment)

- Construct a collection of poetry (text) about puberty
- Using a chatroom to share personal feelings and opinion about changes during puberty
- Presentation of physical changes during puberty
- Construct a word cloud about puberty

### **CYPRUS**

### Physical Education: Defence and Attack Games





Physical Education: Defence and Attack Games

	Physical Education: Dejence and Attack Games	
I. GENERAL DESC	I. GENERAL DESCRIPTION	
Country	Cyprus	
Author/Editor	Foteini Massou	
School	Tricherousa Primary School	
Subject	PHYSICAL EDUCATION	
LD Title	Defence and Attack Games I	
Year group	Primary Education, Sixth Grade	
Duration	6x40'	
Short description	The children had skills in defence and attack games and defence and attack strategies. The goal of the learning cycle was to cultivate children's good behaviours as players in order to implement and adhere to the rules of fair play.	
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/games_cy	
Learning design in Greek	https://resources.ats2020.eu/resource-details/LEDE/fisiki_agogi	

#### **Digital Tools** (affordances)

- Internet access
- My Learning (Journals)
- Office 365

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Apply rules to modified games
- Apply strategies to defence and attack games
- Observe, evaluate and correct their moves (with given points for observation and evaluation)
- Find ways to positively enhance others and motivate them to become better
- Students should show appropriate athletic behaviour (Fair Game Principles, Compliance with the rules, Respect for the other players, Don't destroy the game with my behaviour, Acceptance of error / Taking responsibility, Accepting victory and defeat, Congratulating my team and the opponents' team
- Present appropriate social behaviour
- Collaborative skills Taking roles and responsibilities (Team player, Referee)
- Work with other children with or without the direct supervision of the teacher

# Tasks to develop these competences towards the learning outcomes

- 1. Recording their thoughts mind-map for the words "games" and "player" (teamwork)
- 2. Defense & Attack games
- 3. Roles: Player views / thoughts about the role of the player
- 4. Self-evaluation card for the player (when the students assume the role of the player) individual goals
- 5. Photo shoot of appropriate behaviors choosing best photos for poster and presentation
- List and presentation with appropriate player behavior in the game (teamwork)
- 7. Comment a newspaper article about the behavior of a player in the game
- 8. "My Learning journal", Self-Assessment of Student Skills, Student ePortfolio

#### Leaning outputs – through all stages (assessment)

- Mind-map for games and player
- Ideas/views for player's role
- Self-evaluation card for the player personal goals
- Photos of appropriate behaviors
- List and presentation with appropriate game behavior
- Comments regarding a newspaper article
- My Learning journal, self-evaluation of students' skills, students' ePortfolios

# Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### **Communication and Evaluation**

- Interact, collaborate, and publish with peers, experts, or others
- Communicate information and ideas effectively to multiple audiences using a variety of media and formats
   Contribute to project teams to produce original works or solve problems

#### **Emerging**

#### Information literacy

 Process information and construct new knowledge

#### Creativity and Innovation

Innovating and creatively using tools and resources

#### **Autonomous Learning**

- Identify significant needs for learning based on their prior knowledge
- Define goals to achieve and develop a strategy to achieve them
- Evaluate process and results and provide evidence for achievement

### **CYPRUS**

### **Modern Greek: Racism**





II. Learning Desi	Modern Greek: Racism gn Macro-level
Country	Cyprus
Author/Editor	Photini Theodoulou
School	Akropolis Gymnasium
Subject	MODERN GREEK
LD Title	Racism
Year group	Gymnasium C' Class
Duration	6X40'
Short description	For this unit, students have to prepare an oral presentation on a form of racism. To prepare for their presentation, students analyse and discuss relevant texts in the classroom. They search online for information and pictures for the accompanying presentation they can while giving their presentation. Students present the presentation to their classmates and are evaluated by their classmates and the teacher. In addition, they have to prepare a poster with criteria for oral speech and put a degree of significance for each one.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/racism_en
Learning design in Greek	https://resources.ats2020.eu/resource-details/LEDE/Racism

#### **Digital Tools** (affordances)

- Internet access
- OneNote Class Notebook
- My Learning (Journals)
- OneNote notebooks
- PowerPoint

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Produce argumentative oral speech/ written texts, in specific text genres, in which they incorporate description/ narration/ instructions.
- Organize their oral / written speech at the level of text, paragraph, sentence, word.
- Judge, evaluate and improve the text they produced, with particular, personal or given criteria.
- Locate the general theme of the oral text, interlinking both textual and non-textual elements.
- Evaluate the oral text and the effectiveness of the argumentation incorporated in it, with particular, personal or given criteria.

# Tasks to develop these competences towards the learning outcomes

- Students complete their "My Learning" journal
- Students can choose to work individually or in teams to create a 3-minute oral presentation for a form of racism. Students will study texts on racism in the classroom. Their home should look for more information from the internet about their subject in order to prepare their presentation. They also need to prepare a presentation in PowerPoint.
- Students present their work in class
- The teacher evaluates their oral presentations with an evaluation tool.
- Students evaluate the presentation of another group.
- Students create posters with criteria of evaluation for oral speech and put a degree of significance for each of the criteria.
- Students create their ePortfolio for the unit

# Leaning outputs – through all stages (assessment)

- Completed "My Learning" journal
- ePortfolio for every student
- Students' presentation for racism
- Poster with evaluation criteria for oral presentation
- Completed assessment tools

# Skills and competences necessary to reach the expected outcomes

#### **Targeted**

#### Communication and collaboration

- 1. Communicate information and ideas effectively to multiple audiences using a variety of media and formats.
- 2. Contribute to project teams to produce original works or solve problems.

#### Creativity and Innovation

- 3. Integrate and re-elaborate content Information Literacy
  - 4. Plan strategies to guide inquiry.
  - 5. Evaluate and select information sources and tools based on the appropriateness to specific tasks.
  - 6. Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media.
  - 7. Process information and construct new knowledge.
  - 8. Integrate new knowledge and apply to new situations.

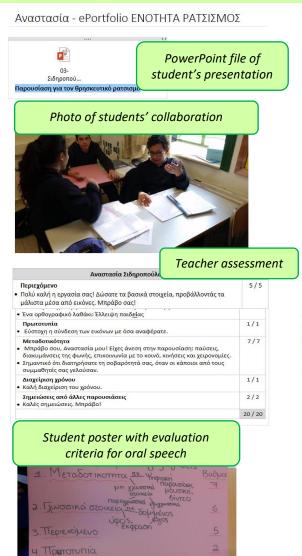
#### **Emerging**

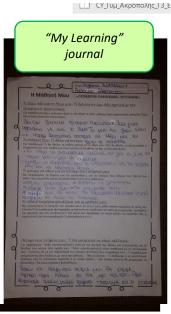
#### Autonomous learning

- 9. Evaluate process and results and provide evidence for achievement.
- 10. Reflect and explore alternative approaches

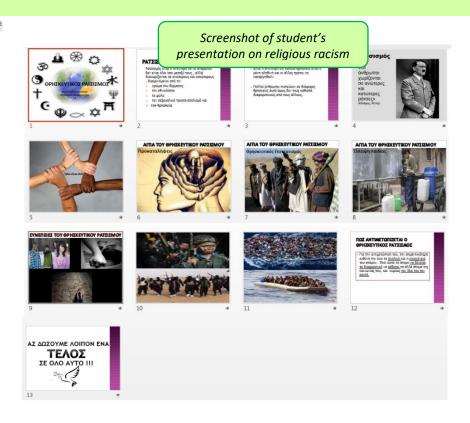
### III. Material, resources and students' artefacts

### **Exemplar ePortfolio**









### English as a Foreign Language: English-speaking countries and culture





II. Looveina Dosi	English as a Foreign Language: English-speaking countries and culture	
ii. Learning Desi	gn Macro-level	
Country	Estonia	
Author/Editor	Annika Allikson	
School	Jüri Gümnaasium (Jyri Gymnasium)	
Subject	ENGLISH AS A FOREIGN LANGUAGE	
LD Title	English-speaking countries and culture	
Year group	8th Grade, 14-15 year-olds	
Duration	Two lessons	
Short description	The students form pairs and are given one English speaking country to make a presentation about. The presentations are shared with the whole class on Mahara. The students also create a learning game, search for videos on their chosen country's most popular sights and anthem on Youtube and find two geographic maps for each of the countries. The students create their pages on Mahara.	
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/est_english_speaking	

#### Digital Tools (affordances)

- ATS2020 Mahara
- My Learning Journals
- Computer
- Headphones

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Knows how to find necessary information and evaluate it critically
- Knows how to make an attractive presentation
- Learns how to use cooperation skills
- Learns how to sort information and allocate more important information from
- Knows how to make a crossword
- Knows how to use correct spelling and grammar in English

# Tasks to develop these competences towards the learning outcomes

- Completing My Learning Cycle
- Finding necessary information about chosen country
- Making a presentation (PowerPoint, Padlet)
- Creating a crossword about chosen country (LearningApps)
- Finding 2 geographical maps
- Searching videos about national anthem and TOP 10 popular sightseeing (Youtube)
- Reading classmates' presentations and commenting them

# Leaning outputs – through all stages (assessment)

- Individual feedback
- Individual portfolio
- My Learning Journals
- Peer assessment

# Skills and competences necessary to reach the expected outcomes

#### Targeted:

- Search, collect, retrieve and share information (information literacy skills)
- Plan, monitor, share their learning
- (autonomous learning skills)
- Develop criteria and apply them (autonomous learning skills)

#### **Emerging**:

- Create an e-portfolio of their learning (autonomous learning skills)
- Use digital technologies (digital skills)
- Communication skills

### **FINLAND**

### History, Mother Tongue (Finnish) and Literature: Course project: How to influence?





	Course project: How to influence?
I. GENERAL DESC	CRIPTION
Country	Finland
Author/Editor	Suvi Vasama and Paula Prinssi
School	Turengin yhteiskoulu
Subject	HISTORY, MOTHER TONGUE (FINNISH) AND LITERATURE
LD Title	Course project: How to influence? Unit 1: Influencing by writing Unit 2: Influencing by speech Unit 3: Visual influence
Year group	Secondary (8E), 14 year olds
Duration	15x45'
Short description	In this course project influencing skills that are included in the course objectives of mother tongue and literature are combined to the content of history course (the World War II). Influencing people is a common theme in both subjects. ICT will be used throughout the project.  Democracy and participation in the society, written, oral and visual ways to influence people: literature, letters to the editor, propaganda in the World War II, holding a speech, debate, posters and documentary films.
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/influence

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Understanding language, literature and culture.
- Understanding historical phenomena.
- Understanding how literature and art have influenced at different time periods.
- Students are able to justify their points of view and influence their own lives and the surrounding society by utilising different communication methods and devices.
- Students observe how they are influenced in the society, how they can influence others and what kind of influencing methods could be used.
- Different perspectives of influence and advocacy.
- Sustainable development and the future, socio-cultural perspective.

# Tasks to develop these competences towards the learning outcomes

- Reading an impressive novel (John Boyne: Boy in the Striped Pyjamas, watching the trailer https://youtu.be/9ypMp0s5Hiw), analytical assignments: interviewing each other's in pairs & a personal writing task: a list of options e.g. write a new end for the story).
- A problem path with QR-code tasks about the historical time of the novel: Second World War (developing a competition for younger students, a group task).
- Opinion articles and letters to the editor: examining the day's paper and searching for genres of text that represent the writer's opinions.
   Analysing modes of argumentation.
- Writing an individual letter to the editor.

#### Leaning outputs - through all stages (assessment)

- Interview in pairs on the book's story with a list of helping questions.
   Peer assessment.
- Writing about the novel (text documents in the personal e-portfolio).
   Teacher assessment.
- Competition is based on the QR-code tasks, solved in pairs, younger and older students together, by using iPads and Google Classroom.
   Group assessments by a discussion after the session / peer feedback.
- Classroom discussion about the day's paper: genres of influencing texts. Notes to a shared Padlet.
- A letter to the editor -text. Teacher's assessment.
- Self-assessment after the learning cycle. Discussion between students and teachers.

#### Digital Tools (affordances)

- YouTube
- Google Classroom and Google Drive
- Padlet
- iPad, QR-code generator and reader

# Skills and competences necessary to reach the expected outcomes

#### Targeted

- Information Literacy (Thinking and learning to learn, Multiliteracy, ICT skills)
- Creativity and Innovation (Thinking and learning to learn, argumentation, listening)
- Collaboration and Communication (Cultural competence, interaction and self-expression)

#### Emerging

- Self- and peer-assessment
- Student-to-student teaching

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Understanding language and culture.
- Understanding historical phenomena.
- To become an active user and creator of culture.
- Developing the skill of presenting a prepared speech.
- Students are able to justify their points of view and influence their own lives and the surrounding society by utilising different communication methods and devices.
- Students observe how they are influenced in the society, how they can influence others and what kind of influencing methods could be used.
- Different perspectives of influence and advocacy.

# Tasks to develop these competences towards the learning outcomes

- Watching historical films where leaders of the Second World War are speaking.
- The student chooses an object or an area from the society where he or she finds some grievance and where he or she wants to influence and writes an influential speech related to it.
- Debate: students will from groups by draw and topics will be assigned (different topics concerning the life of youth) for each group. Studying theory and watching a clip of 8th class debate on the online-TV platform.

#### Leaning outputs – through all stages (assessment)

- Analysing historical speeches in pair discussions and making collective notes in Padlets. Group reflection after this stage.
- Writing an own speech in a Google Document. Literal feedback in pairs and rewriting the speech.
- Holding the speech in the classroom. A written peer and self-assessment as well as a teacher's brief feedback discussion with the whole class.
- Debates: the teacher assesses argumentation, speech skills and cooperation.

#### **Digital Tools** (affordances)

- Google Classroom and Google Drive
- Padlet

# Skills and competences necessary to reach the expected outcomes

#### **Targeted**

- Skills of expressing oneself and the ability to argue (Cultural competence, interaction and self-expression)
- Creativity and Innovation (Thinking and learning to learn, argumentation, listening)
- Collaboration and Communication (Cultural competence, interaction and self-expression)

#### **Emerging**

- Courage
- Self- and peer-assessment

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Understanding language and culture.
- Understanding that historical information can be interpreted in different ways.
- To become an active user and creator of culture.
- Students can justify their viewpoints and influence their own lives and the surrounding society by utilising different communication devices.
- Students observe how they are influenced in the society, how they can influence others and what kind of influencing methods could be used.
- Different perspectives of influence and advocacy.

# Tasks to develop these competences towards the learning outcomes

- Advertising: adverts and advertising, legislation and different means, imagery and language of advertising will be examined.
- Students will make their own propaganda poster against censorship. The concepts of propaganda and censorship will be explored on the lessons of mother tongue and history.

#### Leaning outputs – through all stages (assessment)

- Watching a documentary film about visual propaganda. A writing assignment about the film. Teacher's assessment.
- Propaganda posters (pictures and photos). Teachers' assessment.

#### Digital Tools (affordances)

- Google Classroom and Google Drive
- Digital cameras

Skills and competences necessary to reach the expected outcomes

#### **Targeted**

- Information literacy (Media literacy and multiliteracy)
- Creativity and Innovation (Thinking and learning to learn, argumentation, listening)

#### **Emerging**

 Imagination and experience (as part of the cultural competence)

### GREECE

### Physics: Speed/Velocity- Linear Motion





	Physics: Speed/Velocity- Linea	r Motion	
I. GENERAL DESC	I. GENERAL DESCRIPTION		
Country	Greece		
Author/Editor	Sarantos Economidis		
School	Third Gymnasium of Nikea, Athens, Greece		
Subject	PHYSICS		
LD Title	Speed/Velocity- Linear Motion		
Year group	Gymnasium B' Class		
Short description	Students use scientific methodological approach while developing their skills.		
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/speed-velocity		
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/taxitita		

#### **Digital Tools** (affordances)

- Mahara (Forum, groups, mylearning, pages, files, ePortfolio)
- Tracker (VideoAnalysis)
- Padlet (environment for synchronous collaboration)
- Google forms(Quiz)
- Windows snipping tool
- WiseMapping
- EDpuzzle
- ScreenCast-O-matic or screencastify

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Being able to use time-and-speed-time diagrams for movement in one dimension to determine the motion state of an item/body
- Continuous student contact with scientific way of thinking and scientific methodological approach (observation, concentration, exploitation of information from various sources, hypothesis, experimental control, analysis and interpretation of data, conclusions, generalization and modeling).

# Tasks to develop these competences towards the learning outcomes

- Quiz for detection of the students' prior knowledge and understanding (through the use of an online questionnaire google forms, Interactive Video (EDpuzzle), and concept mapping (WiseMapping)
- Defining the problem and exchanging opinions about how someone could define whether the motion of a toy car is uniform or non-uniform (Padlet)
- Using available equipment to search information for the solution of the problem. Installing and learning how to use the application "Tracker" for video analysis. Collaboration through Padlet or the Mahara Forum.
- Tutorial for learning how to use the application "ScreenCast-O-matic"
- Formulating a hypothesis (Mahara)
- Designing, performing and filming the experiment
- Video analysis, Data Collection (Tracker)
- Posting / Publishing the solution to a page (Mahara)
- Uploading the video (Mahara)
- My learning journal (Mahara)

### Leaning outputs – through all stages (assessment)

- Development of students ePortfolios
- Recording of each student's personal course of learning
- Rubric filled in by the students, aiming at reflection and selfassessment of the the communication and collaboration process.

# Skills and competences necessary to reach the expected outcomes

#### Targeted:

- Search and collection of Information (Information Literacy)
- Exchange of opinions, ideas and reviews (Communication & Collaboration)
- Formulating a hypothesis (Digital Literacy)
- Creative Problem Solving (Information Literacy)
- Posting / making the solution known to the teacher/Group/Public (Digital Literacy)
- Completing the «my Learning» (Selfregulation skills / Autonomous Learning)

#### **Emerging:**

 Familiarisation with digital tools for collecting data, digital communication, collaboration and creativity tools (Digital Literacy)

### GREECE

### Home Economics: Nutrition - Vegetarianism and Nutritional Trends





I. GENERAL DESC	Home Economics: Nutrition - Vegetarianism and Nutritional Trends  I. GENERAL DESCRIPTION	
Country	Greece	
Author/Editor	Kalomira Simota	
School	2nd Gymnasium of Paralia Patras, Achaia, Greece	
Subject	HOME ECONOMICS	
LD Title	Nutrition - Vegetarianism and Nutritional Trends	
Year group	Gymnasium A' Class	
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/nutrition	
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/oodiatrofi	

#### **Digital Tools** (affordances)

- Padlet
- Mahara

# Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- Realising the value of nutrition for the survival, development, health and working performance
- Finding out the reasons why a man has to eat
- Learning about food, how it groups and how to make good nutritional choices in everyday life.
- (Interdisciplinary Curriculum in Home Economics)

# Tasks to develop these competences towards the learning outcomes

- Creating a common text collaboratively
  - Posting in groups in online noticeboards
- Becoming responsible of "My Learning"
  - Completing "My Learning"
  - Completing personal journals

Skills and competences necessary to reach the expected outcomes

#### Targeted:

- Digital Literacy
- Autonomous Learning

# Leaning outputs – through all stages (assessment)

- Group Noticeboards
- Pictures (audiovisual material)
- Students' ePortfolios

# **Business Studies: Marketing Your Business**





Business Studies: Marketing Your Business  I. GENERAL DESCRIPTION		
Country	Ireland	
Author/Editor	Miriam Bergin	
School	Coláiste Mhuire Co Ed	
Subject	BUSINESS STUDIES	
LD Title	Marketing Your Business	
Year group	Secondary - First Year	
Duration	8 class periods plus 2 homework assignments	
Short description	Students will design a poster on the Marketing Mix, using a product or Service of their choice to show their understanding of the Marketing Mix	
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/marketing	

#### Digital Tools (affordances)

- Internet access
- Modelled internet search
- Reflective questions in portfolio

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- 2.8 Devise and apply a marketing mix in order to promote a new or existing product or service
- What is marketing?
- What is a marketing mix
- What is 'product'?
- What is 'price'?
- What is 'place'?
- What is 'promotion'?
- Understand Market Research
- Primary & Secondary Research

# Tasks to develop these competences towards the learning outcomes

- Understand what is meant by marketing research
- How does this support the development of a marketing mix
- What is a marketing mix?
- Reflecting on learning using prompt questions

#### Leaning outputs – through all stages (assessment)

- 1. Present your project in a poster form which can be handwritten, typed or a combination of both following the guidelines for effective presentations, ensure font is readable.
- 2. Research a product of their choice via secondary research sources.
- 3. Apply the marketing mix to their chosen product.
- 4. Ability to work independently to initially research a product of their choice, either at home or via the computer study hub in School.
- 5. Complete a reflection on this task. Answer the following questions. What did you find most difficult about this task?, Did you learn anything new?, What did you learn that you would use again? and If you were to do this project again, what would you do differently?

Skills and competences necessary to reach the expected outcomes

#### Targeted:

Autonomous Learning:

- Collect/ Analyse information to identify solutions and make informed decisions
- Gather evidence of learning achievement
- Reflect and explore alternative approaches

### III. Material, resources and students' artefacts

### **Project Pictures**

#### Project: 1



What did you find most difficult about doing this task? I found it difficult to try and squeeze in the photos onto the poster. But I managed to squeeze them in at the end.

#### Did you learn anything new? if so explain.

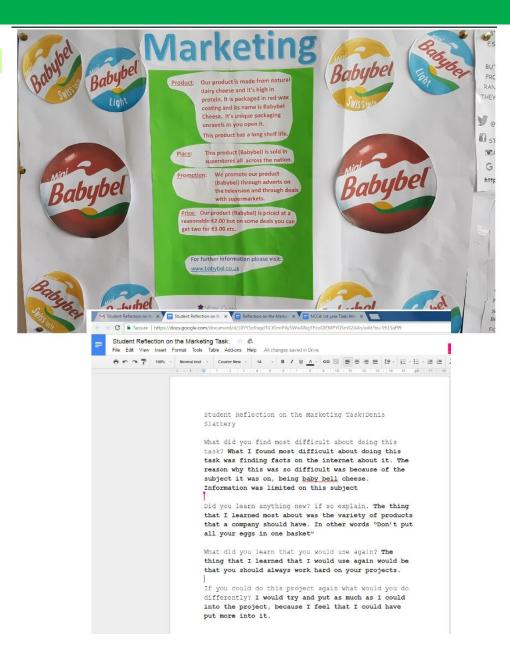
There really wasn't anything new I had learned. But i have now gotten experience in making posters like these so that in the future, I can do the poster with ease.

#### What did you learn that you would use again?

I learned that showing where the 4 p's (product, price, place, promotion) are, it shows people who view the poster in the future can see what they are and what they mean.

If you were to do this project again, what would you have done differently?

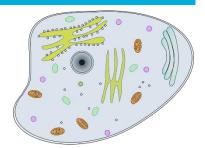
I would have less photos and more information.



### **IRELAND**

# Science: Modelling the Cell





	Science: Modelling the Cell
I. GENERAL DES	CRIPTION CONTRACTOR OF THE PROPERTY OF THE PRO
Country	Ireland
Author/Editor	Suzanne McMahon
School	Borrisokane CC
Subject	SCIENCE
LD Title	Modelling the Cell
Year group	First Year – Secondary
Duration	6 class periods
Short description	Students are learning about the structure and key elements of a cell and are using playdough to make models of cells and give feedback to each other
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/cell

#### **Digital Tools** (affordances)

- Internet access
- Modelled internet search
- Reflective questions in portfolio

#### Learning goals - expected leaning outcomes Body of knowledge (National curriculum)

- 5.1 Investigate the structures of animal and plant cells and relate them to their functions
- Identify/Recall all the parts of the cell
- Identify organelles in a cell: Nucleus, Vacuole, Cytoplasm, Cell membrane, Cell wall, Chloroplasts
- Relate parts of the cell to the function of each part of the cell
- Provide feedback for another group
- Show video of experiment to examine a plant cell.

# Tasks to develop these competences towards the learning outcomes

- Students learn about the structure of cells
- Notes provided in ePortfolio to support student understanding
- Students complete experiment to examine an onion cell under the microscope
- Students draw cells in their copies, labelling the diagram and upload images to portfolio
- Teacher shows a number of these in class to support student learning
- Students make models of cells
- Students provide feedback to each other

Skills and competences necessary to reach the expected outcomes

#### Targeted:

- Autonomous Learning: Evaluate process and results and provide evidence for achievement
- Creativity & Innovation: Innovating and creatively using tools and resources

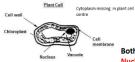
#### **Leaning outputs – through all stages (assessment)**

- Diagram of cell with teacher feedback and group discussion
- Model of cell developed and labelled with organelles and functions
- Formative feedback to other students

### IV. Material, resources and students' artefacts

Cells
Wednesday December 14, 2016, 12-22 PM

#### Plant cell



Photosynthesis:

Plants use light make food, need chemical

Both cells have

Nucleus: Controls all activities of the cell

Vacuole: Stores food Cytoplasm: watery fluid

Cell Membrane: Control what enters and

leaves cell.

Animal Cell



Different:

Plant cells only have chloroplasts??? Why: contain chlorphyll need to make food Cell wall only in plant cell: give it strong rectangle shape

Larger vacuole: needs store food it makes

Student Plant cells

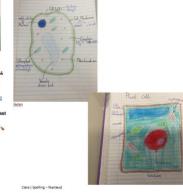








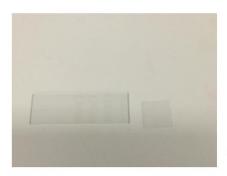




Examine a plant cell
Wednesday, December 14, 2016 11:27 AM

#### Method.

- 1. Prepare slide.
- 2. Peel thin layer of onion skin using a tweezers.
- 3. Place on the slide.
- 4. Add 2-3 drops of iodine to stain and see clearly.
- 5. Cover with a cover slip.
- Using a microscope and different magnification lens draw diagram of a plant cell.



Slide & Coverslip



Onion Cell



Microscope & Slide



