



ATS2020
Assessment of Transversal Skills

ATS2020 – Assessment of Transversal Skills

Oppimisprosessisuunnitelmat

Helmikuu 2018



Painos suomeksi



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Erasmus+ Programme
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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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ESITTELY

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Assessment of Transversal Skills – ATS2020-hanketta Euroopan unionin Erasmus+ -ohjelma rahoituskaudella 1.3.2015 - 1.3.2018. Hanke kuului politiikan uudistamista tukevaan avaintoimi 3:een. Hankekonsortioon kuului 17 partneria 11:sta maasta ja koordinaattorina toimi Kyproksen pedagoginen instituutti. ATS2020-hankkeen toimintatutkimuksessa selvitettiin ATS2020-mallin vaikuttavuutta. Kouluvuoden 2016-2017 aikana mallia testattiin 10 maassa ja mukana oli yli 230 koulua, 750 opettajaa ja 12 000 oppilasta.

Tähän oppaaseen on koottu opettajille ATS2020-mallin käyttöönoton tueksi esimerkkejä oppimisprosessisuunnitelmista. Suunnitelmia voi käyttää sellaisenaan, muokata tai poimia niistä ideoita. Opettajat voivat saada esimerkeistä käsityksen ATS2020-mallin soveltamisesta ja arviointimenetelmistä sekä siitä, miten mallia voi hyödyntää kansallisen opetussuunnitelman mukaisesti.

Toimintatutkimukseen osallistuneet opettajat tuottivat ja jakoivat hankekouluttajien tuella oppimisprosessisuunnitelmansa yleiskuvauksen (macro-level), jonka pohjalle rakentui kunkin toteutuksen yksityiskohtainen, mikrotason suunnitelma (micro-level). Esitelyihin tarkempiin suunnitelmiin liittyy sekä yleisiä että yksityiskohtaisia kuvauksia. Joihinkin kuvauksiin on myös liitetty opiskelijoiden tuottamia aineistoja. Suunnitelmat on julkaistu Creative Commons -lisenssillä CC BY-NC-SA 4.0. Katso tarkemmin: <https://creativecommons.org/licenses/by-nc-sa/4.0/>.

Tässä oppaassa esitellään 19 ATS2020-mallin mikrotason suunnitelman mukaista toteutusta. Lisäksi ATS2020-tukiaineistojen sivustolta löytyy kuvaukset yli 80:stä loppuun viedystä toteutuksesta sekä 10 mallin mukaista yleissuunnitelmaa (macro-level). Vaikka kaikki yleissuunnitelmat

eivät ole viimeistelyjä ja mallinnettuja, ne antavat opettajille ideoita omiin toteutuksiin. Sivustolta löytyy lisäksi yli 100 tiivistelmää ATS2020-mallin mukaisista oppimisprosessisuunnitelmista (macro-level). Tutustu näihin aineistoihin: <https://resources.ats2020.eu/learning-designs>. ATS2020-tukiaineistojen sivustolta löytyy kunkin maan kielellä opettajien suunnitelmia. Ota huomioon, että suunnitelmat ovat opettajien työstämiä eikä niitä ole muokattu.

Opettajat ja heidän kouluttajansa voivat jatkuvasti rikastaa tätä suunnitelmavarantoa. Kutsummekin sinut tutustumaan verkkoaineistoihimme ja rikastamaan niitä omilla oppimisprosessisuunnitelmillasi.

Learning Designs in Finnish that are available at: <https://resources.ats2020.eu/learning-designs>

MACRO-LEVEL LEARNING DESIGNS			
Oppiaineet	Otsikko	Kouluaste	Linkki
Kotitalous, kemia, kielet	Olet mitä syöt	yläkoulu	https://resources.ats2020.eu/resource-details/LEDE/19EF36B55FE9AC25EC6439C249CE033E

TABLE OF CONTENTS *(in Alphabetical order by Country)*

	SUBJECT	TITLE	LEVEL	COUNTRY	PAGE NUMBER
COMPLETE LEARNING DESIGNS (MICRO-LEVEL)					
1	DESIGN AND TECHNOLOGY	The technical process / Transport	Secondary Education – Second Year (13-14 year olds)	Belgium	4
2	MATHEMATICS	Addition of natural numbers	Primary, 6th grade (11-12 year olds)	Croatia	13
3	ENGLISH	English: Musical Instruments	7th grade (13-14 years old)	Croatia	16
4	COMPUTER SCIENCE	Hardware, software and user related problems	Gymnasium, C' class	Cyprus	19
5	GEOGRAPHY	Introduction to Europe	Primary, 5th Grade	Cyprus	26
6	MODERN GREEK	We are all equal, we are all different	3rd grade of Secondary Education (14-15 years old)	Cyprus	43
7	GREEK LANGUAGE	Mysteries – Science Fiction – “Time Machine”	Primary, 5 th Grade	Cyprus	51
8	PHYSICS	Heat and Calorimetry	3rd grade of Secondary Education (14-15 years)	Cyprus	66
9	DESIGN AND TECHNOLOGY	Energy – Environmental Issues	Gymnasium, C' class	Cyprus	75
10	ENGLISH AS A FOREIGN LANGUAGE	London	8th Grade, Basic school (14-15 year olds)	Estonia	82
11	LITHUANIAN LANGUAGE	Tales	Lower Secondary	Lithuania	86
12	LITHUANIAN LANGUAGE	Repetition of spelling the nasal vowels in the root	10-13 years old	Lithuania	96
13	HISTORY	World War I – Isonzo front	General Upper Secondary School, 16–18 years	Slovenia	103
14	SCIENCE	Circulatory system – Transport system – Heart functioning	Primary School, Eight Grade (13–14 years)	Slovenia	116

15	MATHEMATICS	Patterns with Olympic rings	12–14 years	Slovenia	127
16	HISTORY	The Romanesque through the Road to Santiago	12-15, Lower Secondary	Spain	136
17	ENGLISH AS A FOREIGN LANGUAGE	Family Names	Secondary School, first year	Spain	140
18	ENGLISH/SPANISH GALICIAN LANGUAGE	Book trailer- Video story telling	10-16 years old	Spain	144
19	CHEMISTRY AND PHYSICS	Chemical Bonding	13-16 years old	Spain	149
MACRO-LEVEL LEARNING DESIGNS					
19	ENGLISH AS A SECOND LANGUAGE	Food and drink	Secondary Education (13-16 years)	Belgium	158
20	NATURAL SCIENCE	Puberty	Primary education (11-12 years)	Belgium	160
21	PHYSICAL EDUCATION	Defence and Attack games	Primary Education, Sixth Grade	Cyprus	162
22	MODERN GREEK	Racism	Gymnasium C' Class	Cyprus	164
23	ENGLISH AS A FOREIGN LANGUAGE	English-speaking countries and culture	Secondary Education, 8th Grade, 14-15 year-olds	Estonia	167
24	HISTORY, MOTHER TONGUE (FINNISH) AND LITERATURE	Course project: How to influence? Unit 1: Influencing by writing Unit 2: Influencing by speech Unit 3: Visual influence	Secondary Education	Finland	169
25	PHYSICS	Speed/Velocity- Linear Motion	Gymnasium B' Class	Greece	173
26	HOME ECONOMICS	Nutrition - Vegetarianism and Nutritional Trends	Gymnasium A' Class	Greece	175
27	BUSINESS STUDIES	Marketing Your Business	Secondary - First Year	Ireland	177
28	SCIENCE	Modelling the Cell	First Year – Secondary	Ireland	180



COMPLETE LEARNING DESIGNS (Micro-level)

Design and Technology: The technical process / Transport



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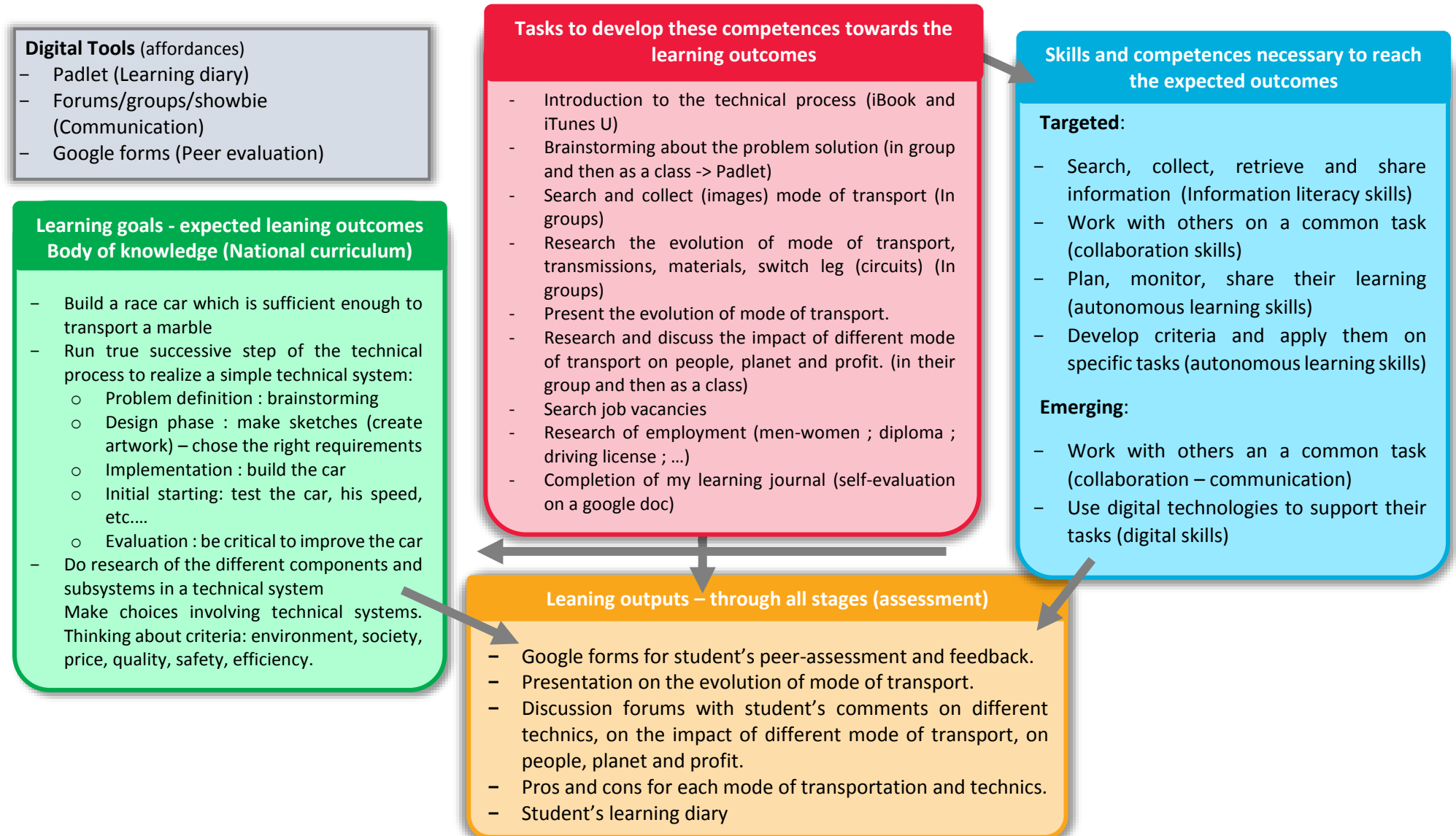


Design and Technology: The technical process / Transport

I. GENERAL DESCRIPTION

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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
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)	1.1 Students attend teachers' iBook and iTunes U course. 1.2 Students visit Padlet (technical process) 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) <i>Revisit and fill in at their own needs during the whole unit.</i>	Prepare and present an iBook and iTunesU course. Guidelines to work with iBook's (chapter 1) and Padlet	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 style="list-style-type: none"> Search collect retrieve and share information (information literacy learning skills) Use digital technologies to support their tasks (digital skills) 	3.1 students review the curricula of technology <i>Students read and review the curricula of technology to understand what they have to achieve</i> 3.2 students get the main goals out of the curricula and post them on a Padlet <i>Students get the main goals out of the curricula and post them on a Padlet to discuss</i>	Present the curricula of the technical process in an iBook	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. <i>Revisit and fill in at their own needs during the whole unit</i>	Review students goals and coach them for their strategies	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 Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
ACT_5 Identify the technical process	Identify the technical process	<p>Work with others on a common task (collaboration skills)</p> <p>Develop criteria and apply them on a specific task (autonomous learning skills)</p> <p>Use digital technologies to support their tasks (digital skills)</p>	<p>5.1 students identify the technical process by finding 5 solutions <i>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</i></p> <p>5.2 Students visit other groups' Padlet and comment <i>each group read the solutions of the other groups and provides feedback.</i></p> <p>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. <i>Students agree on a list of solutions and thereby the different steps of the technical process in collaboration with the teachers</i></p>	<p>Create an instruction in the iBook</p> <p>Create a Padlet wall / group and a Padlet wall to publish a rubric</p> <p>Monitor and support students activity</p> <p>Create a class in showbie or group in Mahara</p>	<p>Showbie</p> <p>Mahara groups</p> <p>Padlet</p>	<p>Group work</p> <p>Plenary discussion</p>	<p>A classroom accepted rubric with steps of the technical process</p> <p>Each group's list of solutions</p> <p>Discussion with students' communication and collaboration on identifying the technical process.</p>
Act_6 Search and collect images of mode of transport	Refer to different mode of transport	<p>Work with others on a common task (collaboration skills)</p>	<p>6.1 students go online and search for images of different mode of transport. <i>Students work in group and search online resources and collect images of modes of transport. The teacher provides key trends in transportation mode.</i></p> <p>6.2 Students visit their Padlet / group on showbie / Mahara and create a collection of their images.</p> <p>Students upload their pictures on their wall</p>	<p>Create Padlet walls / showbie class / Mahara groups</p> <p>Monitor and support students activity</p> <p>Give feedback</p>	<p>Padlet walls / showbie class / Mahara groups</p>	<p>Group work</p>	<p>Upload movies/images of transportation modes</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
Act_7 Research the different mode of transport	Research the different transportation modes	<p>Work with others on a common task (collaboration skills)</p> <p>Develop criteria and apply them on a specific task (autonomous learning skills)</p> <p>Use digital technologies to support their tasks (digital skills)</p>	<p>7.1 Students view images and movies and give feedback on the different transportation modes. Referring to safety and environment.</p> <p><i>Students see images and movies in the iBook</i></p> <p><i>Students give feedback on mode of transport referring safety and environment in Mahara / showbie / Padlet. The pros and cons of the transportation modes will be collected on Padlet / showbie / Mahara.</i></p> <p>7.2 Students visit the work of their peers and give feedback using google forms.</p> <p><i>Each group read the pros and cons of the other groups and provides feedback.</i></p> <p>7.3 students agree on a list of pros and cons and thereby find the best transportation mode. The discussion is led by the teacher with the whole class.</p> <p><i>Students agree on a list of pro and contra of transportation modes in collaboration with the teacher.</i></p>	<p>Create an instruction in the iBook</p> <p>Create a Padlet wall / Mahara group / showbie class</p> <p>Create a google form</p> <p>Monitor and support students activity</p> <p>Lead the discussion with the whole class.</p>	<p>Padlet</p> <p>Showbie/Mahara</p> <p>Google forms</p>	<p>Group work</p> <p>Plenary discussion</p>	<p>Group list pro and contra of transportation modes.</p>
Act_8 Search and collect images of the evolution of transport	Refer to evolution of transport	<p>Work with others on a common task (collaboration skills)</p> <p>Use digital technologies to support their tasks</p>	<p>8.1 students go online and search for images of evolution of transport.</p> <p><i>Students work in group and search online resources and collect images of evolution of transport.</i></p> <p>8.2 Students visit their Padlet / group on showbie / Mahara and create a collection of their images. They have to place the</p>	<p>Create Padlet walls / showbie class / Mahara groups</p> <p>Monitor and support students activity</p> <p>Give feedback</p>	<p>Padlet walls / showbie class / Mahara groups</p>	<p>Group work</p>	<p>Upload images of the evolution of transport</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
		(digital skills)	<p>pictures in chronological order on a poster.</p> <p><i>Students upload their pictures in a folder</i></p> <p>8.3 students comment the evolution by technic and the advantages of the evolution.</p> <p><i>Students comment the technology and the advantages of the evolution on the poster.</i></p>				
Act_9 Peer evaluation and feedback of students artwork		<p>Share their learning and use peer and teacher feedback for self-evaluation</p> <p>(autonomous learning skills)</p> <p>Use digital technologies to support their tasks</p> <p>(digital skills)</p>	<p>9.1 students upload their poster with their comment.</p> <p><i>students upload their poster on a Padlet wall/ showbie / Mahara folder</i></p> <p>9.2 Students visit the work of their peers and give feedback.</p> <p><i>Students comment on each other's creations.</i></p> <p>9.3 students agree on the advantages of the evolution of the transportation mode. The discussion is led by the teacher with the whole class.</p> <p><i>Students agree on the advantages of the evolution of transportation modes s in collaboration with the teacher.</i></p>	<p>Review students artwork</p> <p>Read and review group's feedback</p> <p>Monitor and support students feedback</p>	Showbie / Mahara / Padlet	<p>Groups work</p> <p>Plenary discussion</p>	<p>Groups pages with their posters</p> <p>Discussion forums with peer assessment and feedback on the artwork</p> <p>Students' chronological view of the evolution of transportation mode.</p>
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)	<p>10.1 Students plan on the artwork they want to create, find the necessary material and work on it.</p> <ul style="list-style-type: none"> - Students make a sketch - Students chose the right equipment - Students build the car 	<p>Individual guidance and feedback</p> <p>Monitor and support students creative work</p>	<p>Mixed media</p> <p>IPad</p> <p>Camera</p> <p>Technical materials</p>	<p>Group work</p> <p>Individual work</p>	<p>Students build a race car which is sufficient enough to transport a marble</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
	enough to transport a marble		- Students will test the car <i>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</i>	Review students "my learning journal"	Mahara / Padlet / showbie		
Act_11 Peer evaluation and feedback of students artwork		Share their learning and use peer and teacher feedback for self-evaluation (autonomous learning skills) Use digital technologies to support their tasks (digital skills)	11.1 students upload a movie of their test on Mahara / google / showbie <i>students film their artwork and their test and upload it to Mahara / google / showbie</i> 11.2 Students visit the work of their peers and they give feedback on a google doc / Mahara forum / showbie <i>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.</i> 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	Review students artwork in showbie /forum Read and review groups feedback Monitor and support student edit process Read and review students "my learning journal"	Mahara pages – forum Google docs / forms showbie	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	Identify the job ads for men and women	Work with others on a common task (collaboration skills)	12.1 students identify the job ads for men and women on a Padlet or Mahara <i>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</i>	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	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
		Develop criteria and apply them on a specific task (autonomous learning skills) Use digital technologies to support their tasks (digital skills)	<i>women. They post their response as a group advertisement the Padlet wall or in showbie/Mahara</i> 12.2 Students visit other groups Padlet and comment <i>Each group read the notes of the other groups and provides feedback.</i> 12.3 students agree on a list of job ads for men and or women through a teacher lead discussion with the whole class. <i>Students agree on a list of job ads for men and or women collaboration with the teachers</i>	Monitor and support students' activity Create a class in showbie or group in Mahara			collaboration on identifying a job in the transportation mode
Act_13 Create an artwork to present themselves	Create an artwork making a movie to promote themselves for a job.	(Creativity skills)	13.1 Students plan on the artwork they want to create, find the necessary material and work on it. - Students promote themselves (mind map – Padlet) <i>Students open explain everything and make a film</i> <i>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</i>	Individual guidance and feedback Monitor and support students creative work Review students “my learning journal”	Mixed media iPad : explain everything Camera Mind-map Mahara / Padlet / showbie	Individual work	Students make a movie to present themselves
14_ Peer evaluation		Share their learning and use peer and teacher feedback for self-evaluation (autonomous learning skills)	14.1 students upload their movie on Mahara / google / showbie <i>students present their artwork on Mahara / google / showbie</i>	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	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
		Use digital technologies to support their tasks (digital skills)	<p>14.2 Students visit the work of their peers and they give feedback on a google doc / Mahara forum / showbie</p> <p><i>students and teacher comment on each other's creations</i></p> <p>14.3 students edit their work based on the feedback given and based on their own self reflections.</p> <p>Students read their peers and teachers comment and edit their cars.</p> <p>Each student write a final journal reflecting on their collaboration with their peers and what they have learnt.</p>	<p>Monitor and support student edit process</p> <p>Read and review students "my learning journal"</p>			<p>Students group artwork</p> <p>Students individual my learning journal with self-assessment and reflection entries</p>
Act_15 Complete learning journal		Plan, monitor share their learning (autonomous learning skills)	<p>15.1 fill in their learning journal, their reflection on their work and what kind of evidence they have for their learning achievements</p> <p><i>Revisit and fill in at their own needs during the whole unit.</i></p>	Review students' journal and coach them for their discussions	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)	<p>16.1 Students design and develop their individual ePortfolio</p> <p>16.2 Students share their individual ePortfolio and give and receive feedback</p>	Review students' ePortfolio	Mahara	Individual work	Students individual ePortfolios on their learning on the technical process

Mathematics: Addition of natural numbers

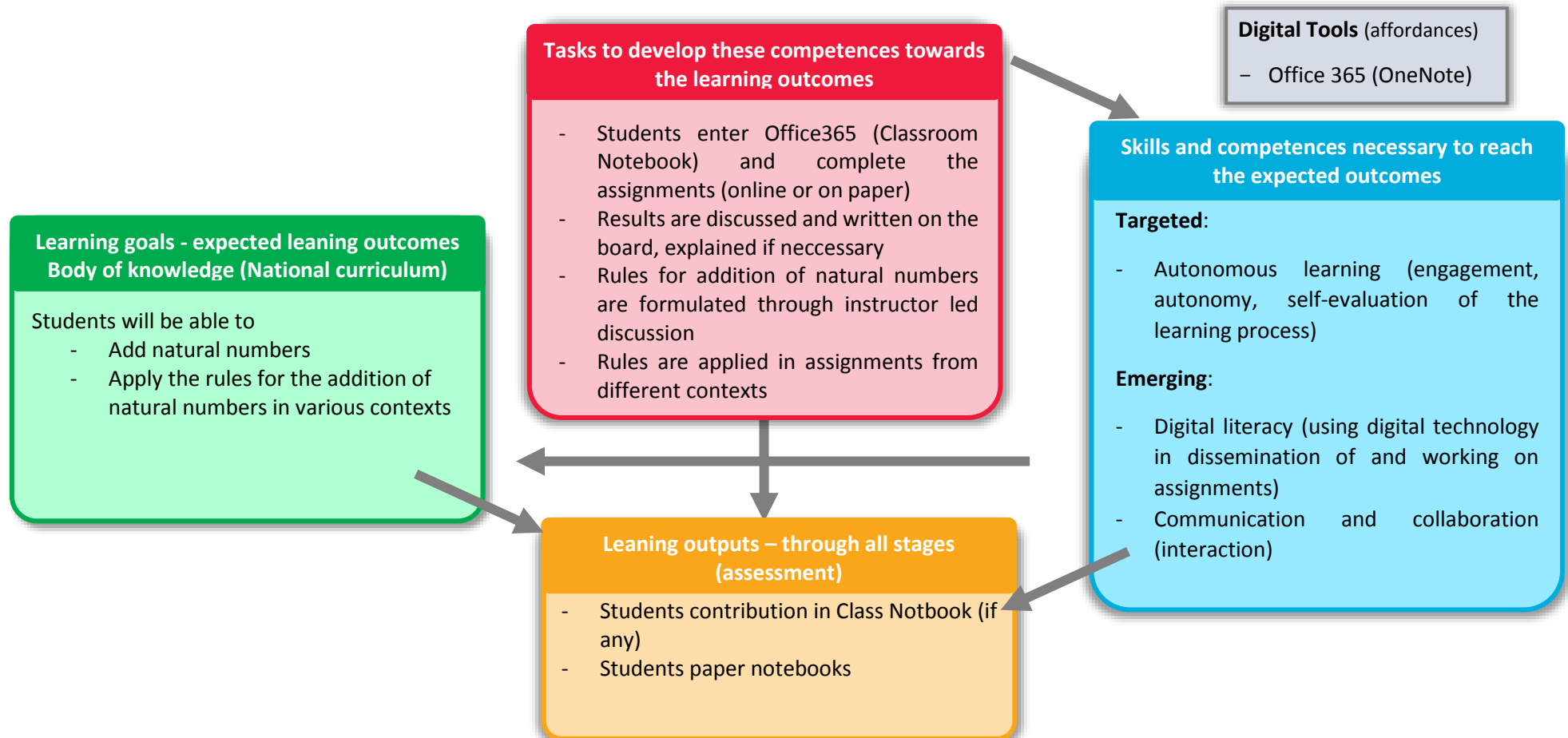


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*Mathematics: Addition of natural numbers***I. GENERAL DESCRIPTION**

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 assignments have been entered, 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 assignments 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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
Activity 1: Addition of natural numbers in Classroom Notebook	To be able to add natural numbers	Autonomous learning – awareness of own knowledge Digital skills – logging into O365, finding the content	Each student logs into O365, they find the mathematical assignments, work on them in their digital or paper notebook	Assisting with passwords Reminding students what they already know about natural numbers	Office 365	Individual work on the computer or in the paper notebook	Completed assignments in Classroom notebook or in the paper notebook	Verbal feedback from the teacher
Activity 2: Discussion about the results of Activity 1	To be able to add natural numbers	Autonomous learning – defining goals for learning	Students talk about the result of each assignment <i>My Learning Journal:</i> Attempt to answer what they know and what they need to learn	Teacher moderates a discussion		Whole class discussion		
Activity 3	To be able to add natural numbers	Autonomous learning – developing a strategy for learning	Each student completes more assignments (similar calculations but from different contexts) in O365	Teacher supervises individual work and motivates students to make analogy,		Individual work		
Activity 4	To be able to add natural numbers	Autonomous learning – evaluating strategy	Group discussion – an attempt to formulate rules for addition of different natural numbers and in a variety of contexts <i>My Learning Journal:</i> Attempt to evaluate own learning	Teacher moderated discussion		Whole class discussion	My learning – answers to all 5 questions	

English: Musical Instruments

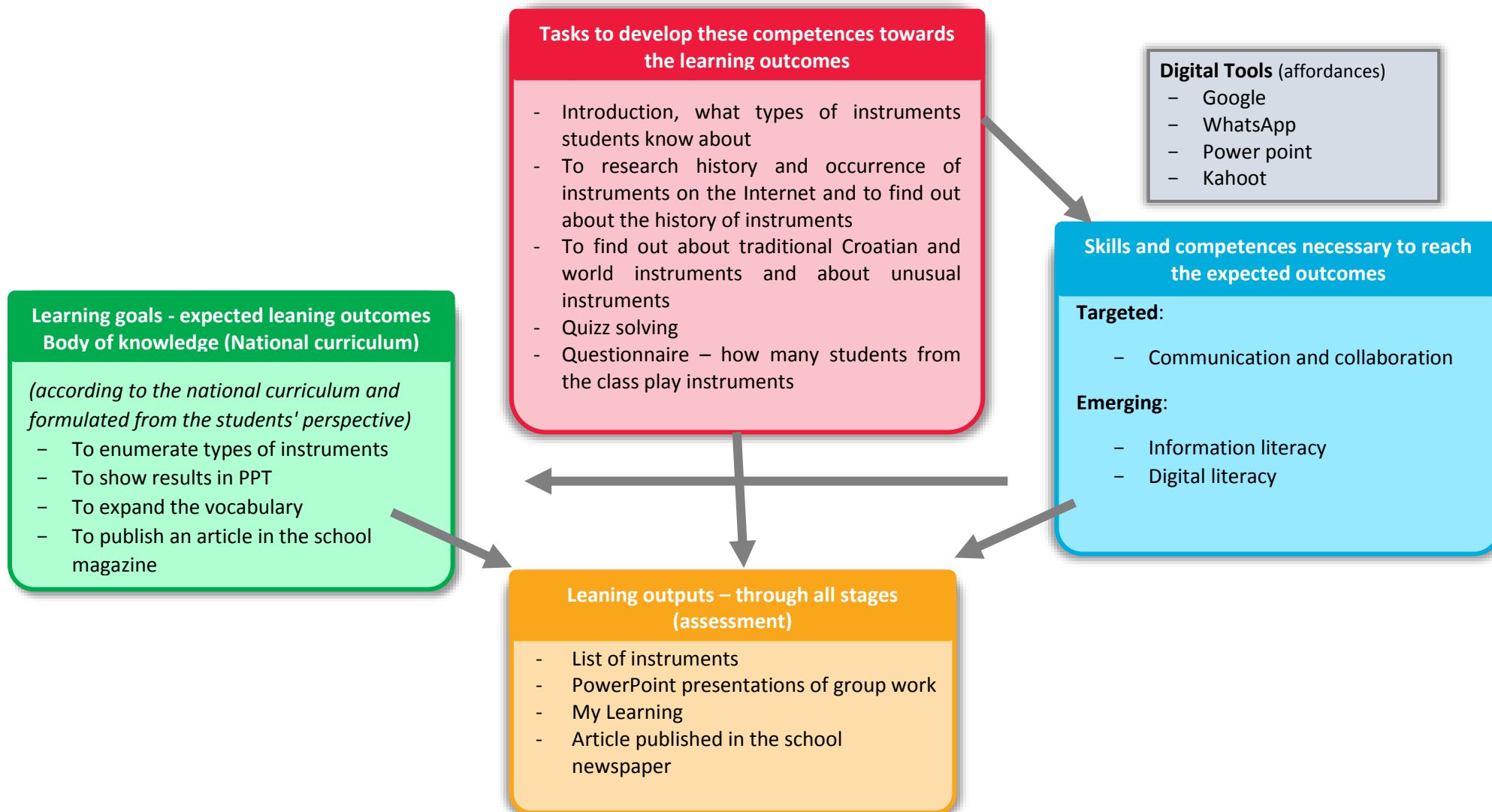


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*English: Musical Instruments***I. GENERAL DESCRIPTION**

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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
Activity 1: Introduction	Determine how much students already know about musical instruments	Communication and collaboration: Listen and express oneself, discussion;; Autonomous learning: Identify their existing knowledge and skills in reference to the leaning context	Discussion <i>My Learning Journal:</i> 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	Autonomous learning: Define goals for their learning to achieve	Research on Croatian and international and some unusual musical instruments and make notes <i>My Learning Journal:</i> To answer the third and fourth questions in My learning template	Supervising	One Note	Individual	My learning	My learning Self-evaluation and teacher
Activity 3: Making PowerPoint and presentation	Formulate results in written form in English	Collaboration, use language, discussion, listen and express oneself, use language	Making PowerPoint presentation for the homework in the groups; Oral presentation in front of a class and discussion	Supervising and motivating the students		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 <i>My Learning Journal:</i> 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

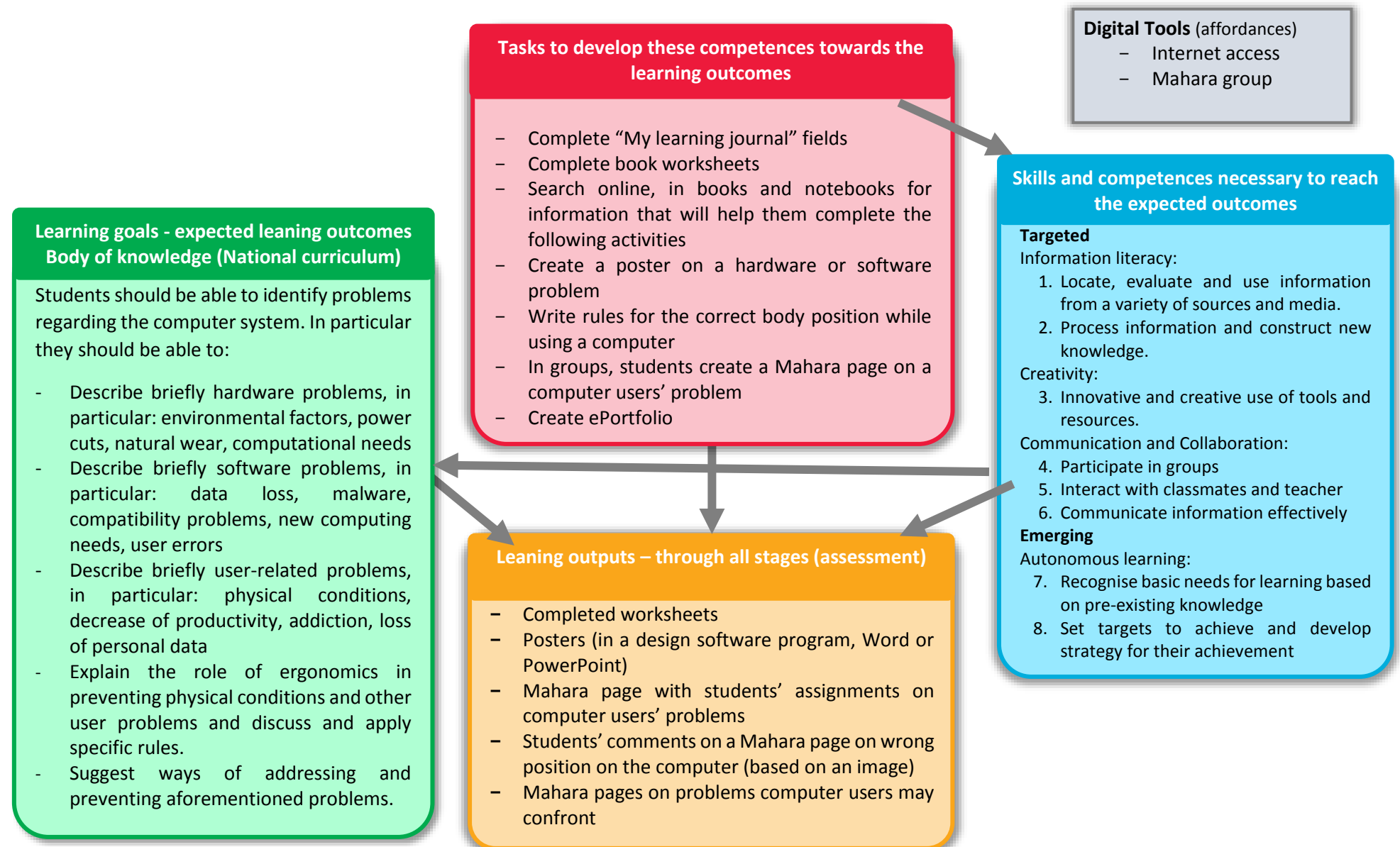


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*Computer Science: Hardware, software and user related problems***I. GENERAL DESCRIPTION**

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

II. Learning Design Macro-level



III. Learning Design Micro-level

*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 goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills *						
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	- Students learning journals in Mahara - Guidelines for filling students' learning journals in Mahara	- 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	- Describe briefly hardware problems and suggest ways of prevention and troubleshooting - Describe briefly software problems and suggest ways of prevention and troubleshooting	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	- Teacher presentation - Students' workbook - Mahara page - (Students choose the software they are going to use to create their poster)	- Teacher presentation - Completion of worksheets - Individual work	- Completed worksheets - Posters	<u>Peer assessment</u> Students comment each other's posters





Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills *						
			software problem and create 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 user-related problems, in particular: physical conditions, decrease of productivity, addiction, loss of personal data and suggest ways of facing and preventing them - Explain the role of ergonomics in preventing physical conditions and other user problems and discuss and apply specific rules.	Skills: 1, 2, 3, 4, 5, 6	- 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. - Students complete a quiz on the unit.	- Prepares Mahara page with instructions - Prepares groups' Mahara pages - Guides students through their work	- Mahara pages for the activities	- Individual work - Group work	- Comments from all students in Mahara for the person posture in the photograph - Mahara Pages for problems that computers users may face - Completed quiz from all students	<u>Teacher assessment</u> Teacher provides formative feedback on students' work Students complete a quiz which examines whether the subject area goals are achieved.

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills *						
4. Completion of My Learning journal and creation of ePortfolio		Skills: 3, 6	<ul style="list-style-type: none"> - 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) 	- Gives instructions and guides the students	- Mahara	- Individual work	<ul style="list-style-type: none"> - My Learning journal for every student - ePortfolio for every student 	<u>Teacher</u> Teacher provides formative feedback on students' work Provides feedback on their ePortfolios <u>Students' self-assessment</u> 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 (<http://resources.ats2020.eu/resource-details/SCTS/assessment-student>). The tool was included in the students' ePortfolios.

Εργαλείο Αυτοαξιολόγησης μαθητή					
		Καθόλου	Λίγο	Πολύ	Πάρα Πολύ
Πληροφοριακός Γραμματισμός					
1. Σχεδιασμός στρατηγικών για διερεύνηση	1.1. Εντοπίζω σημαντικές ανάγκες/ προβλήματα για διερεύνηση ώστε να ικανοποιήσω τους μαθησιακούς μου στόχους.				
	1.2. Ορίζω στόχους για αναζήτηση πληροφοριών, σχετικούς με τις καθορισμένες μου ανάγκες/ προβλήματα.				
	1.3. Δημιουργώ και αναθεωρώ τις προσωπικές μου στρατηγικές για τις πληροφορίες.				
2. Αξιολόγηση και επιλογή πληροφοριακών πηγών και εργαλείων, με βάση την καταλληλότητα για το σχετικό έργο	2.1. Επιλέγω κατάλληλες/σχετικές πηγές/εργαλεία που ανταποκρίνονται σε συγκεκριμένη αναζήτηση πληροφοριών				
	2.2. Χρησιμοποιώ αποτελεσματικά πηγές/εργαλεία (πρόσβαση και πλοήγηση)				
3. Εντοπισμός, οργάνωση, ανάλυση, αξιολόγηση, σύνθεση και ηθική χρήση πληροφοριών από ποικιλία πηγών και μέσων	3.1. Εντοπίζω σχετικές πληροφορίες				
	3.2. Αναλύω τις πληροφορίες και τα δεδομένα που παρουσιάζονται σε ποικιλία μορφών				
	3.3. Αξιολογώ κριτικά τις πληροφορίες				
	3.4. Αποθηκεύω και ανακτώ πληροφορίες				

Exemplar ePortfolio of the unit “Hardware, software and user related problems”

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

από Mathias Christoforou

Επεξεργασία σελίδας Copy

Πληροφορίες προφίλ

Επάγγελμα: Μαθητής
Υπηρεσία/Επιχείρηση: Γυμνάσιο-Λύκειο Λακαίων
Όνομα: Mathias
Επώνυμο: Christoforou

Α. Προδικη εργασία

Α. Ουδέτερο: Ανάλυση / προσωπικών δεδομένων

Μπορεί να γίνει με υποκατάθε δεδομένων.

- Ευαίσθητα θεωρούμε τα δεδομένα που η ανάλυση τους ή η μη εξουσιοδοτημένη 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 σκοτάδι/αυτο

Α. ΕΡΓΑΣΙΑ

Κατανομή στην Τεχνολογία

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

Τα σχόλια μου:

Η στάση του συγκεκριμένου ανθρώπου στην πιο πάνω εικόνα είναι λαθισμένη για τους ελές λόγους:

- * Οι αγένειες του δεν βρίσκονται σε στάση 90-120 μοιρών
- * Η οθόνη δεν βρίσκεται στην ίδια ευθεία με τα μάτια
- * Η κλίση του δεν είναι σε ευθεία όσον διαφέρει την φυσικολογική της καμπυλότητα
- * Δεν υπάρχει στήριξη στο χέρι

Ο πιο πάνω λαθισμένης τρίτης καθήκοντος μπορεί να προκαλέσει:

- Πόνους στη πλάτη
- Συχνόρογο καρπούλου ούληση
- Πονοκέφαλους
- Αυξημένο σάκερμα

Γνωστική - Προβλήματα που σχετίζονται με το υλικό, λογισμικό, χρήστη

Σελίδα 0/1

Προηγούμενη γνώση

1) να μαθαίνει και να είναι πιο οργό το computer

Β. Άρθρο

ΒΡΑΧΥΚΥΚΛΩΜΑ ΛΟΓΩ ΣΚΟΝΗΣ

Πώς να προστατέψω τον υπολογιστή μου από σκόνη (από το περιβάλλον)

Να κρατάμε το περιβάλλον και υπολογιστή καθαρό από σκόνη

Mathias Christoforou 1.1

Σελίδα 0/1 Add comment Details

Α. Έργα της Αυτοαξιολόγησης μαθήτη

		κατόλου	Λίγο	Πολύ	Πολύ
Πληροφορικός Γραμματισμός					
1. Σχεδιασμός στρατηγικών για διακρίνση	1.1. Εντοπίζω σημαντικές πηγές/ προβλήματα για διακρίνση ώστε να ικανοποιήσω τους μαθησιακούς μου στόχους.				A
	1.2. Ορίω στόχους για αναζήτηση πληροφοριών σχετικά με τις καθήκοντες μου ανάγκες/ προβλήματα.				B
	1.3. Διαμοιράζω και συζητώ τις προσωπικές μου στρατηγικές για τις πληροφορίες.		X		
2. Αξιολόγηση και επιλογή πληροφοριακών πηγών και εργαλείων με βάση την καταλληλότητα για το σχετικό έργο	2.1. Επιλέγω κατάλληλες/ σχετικές πηγές/εργαλεία που ανταποκρίνονται σε συγκεκριμένη αναζήτηση πληροφοριών				A
	2.2. Κρησιμοποιώ αποτελεσματικά πηγές/εργαλεία πρόσβαση και πληροφοριών				B
	3.1. Εντοπίζω σχετικές πληροφορίες				A

Geography: Introduction to Europe



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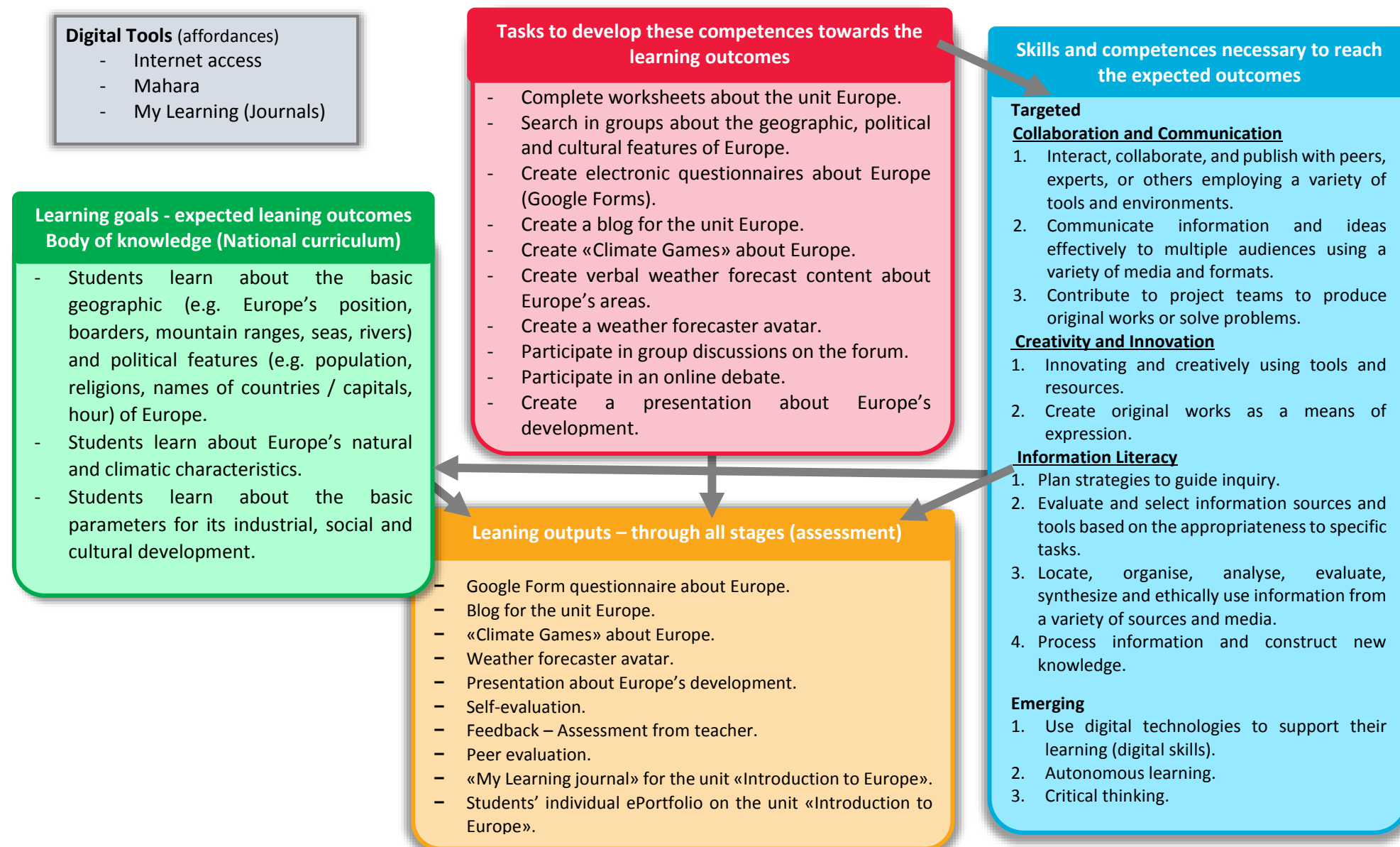


Geography: Introduction to Europe

I. GENERAL DESCRIPTION

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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
LESSON 1 Activity 1: <i>Lesson Introduction</i>			<p>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:</p> <ul style="list-style-type: none"> – Can be taught the basic geographic (position, borders, mountain ranges, seas, rivers) and political features (population, religions, names of countries/capitals, hour) of Europe. – Learn the natural and climatic characteristics of Europe. – Learn the basic parameters of its industrial, social and cultural development. <p>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</p>	<ul style="list-style-type: none"> - Prepares the lesson (instructions, presentations, Google Forms) in Mahara. - Informs students about the goals of the unit. - Guides students to complete My Learning journal. 	<ul style="list-style-type: none"> - Mahara - My Learning journal 	<ul style="list-style-type: none"> - Individual work 	<ul style="list-style-type: none"> - Students complete the first three tabs in “My Learning journal”. 	

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
			work for this unit; i.e. individually, in pairs or in groups.					
Activity 2: <i>Let's Begin ...</i>	<u>Subject area goals</u> - 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.	- Informs students about the task they have to do. - Guides students. - Facilitates the discussion.	-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: <i>Let's get to know Europe better!</i>	<u>Subject area goals</u> -Students learn the basic geographic (e.g. Europe's position, borders, mountain ranges, seas, rivers) and political features (e.g. population, religions, names of cities / capitals, hour) of Europe.	<u>Collaboration & Communication</u> - Students interact, 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 produce original	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.	- Informs students about the task they have to do. - Guides students. - Facilitates the procedure, whenever is necessary. -	-Mahara -Presentation about Europe - Google Forms - Self-evaluation questionnaire	Group work (collaboration)	- Each team prepares a Google Form with multiple-choice questions regarding Europe's geographic features.	Self-evaluation of questionnaire's content. (see learning design appendix)

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
	<ul style="list-style-type: none"> 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.					
Activity 4: <i>Blog</i>			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 th 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.	<ul style="list-style-type: none"> - Informs students about the blog they will create and refers them to http://europelympia.class5.blogspot.com.cy/ to see the blog. 	<ul style="list-style-type: none"> - Mahara - Blog 	<ul style="list-style-type: none"> - Individual work 	<ul style="list-style-type: none"> - Students browse the blog, which they will create in this unit. 	
Activity 5: <i>Introductory Game</i>			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.	<ul style="list-style-type: none"> - Informs students about the game. 	<ul style="list-style-type: none"> - Mahara - Game 	<ul style="list-style-type: none"> - Individual or group activity in their free time. 	<ul style="list-style-type: none"> - Students will locate the European countries through the game. 	

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
Activity 6: <i>Lesson Conclusion</i>			Task 6.1: Teacher asks students to go to My Learning journal and add their team's questionnaire (link or 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".	<ul style="list-style-type: none"> - Informs students about the entry in My Learning journal and their self-evaluation of their ability to collaborate and communicate. 	<ul style="list-style-type: none"> - Mahara - My Learning journal - Self-evaluation questionnaire in Drive 	-	<ul style="list-style-type: none"> - Students develop the skill to assess their ability to collaborate and communicate efficiently. 	Self-evaluation of communication and collaboration skills (see learning design appendix)
LESSON 2 Activity 1: <i>Europe's climate</i>	Subject area goals To be taught the basic geographic features (position, borders, mountain ranges, seas, rivers). Learn the natural and climatic characteristics of Europe.	Collaboration & Communication <ul style="list-style-type: none"> - Students communicate information and ideas effectively to multiple audiences using a variety of media and formats. 	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://e-geografia.eduportal.gr/maps/map_europe_1/map_europe1.html , to post on the forum their conclusions regarding their observations related to Europe's landform.	<ul style="list-style-type: none"> - Prepares the lesson (instructions, presentations, video, geomorphological map) in Mahara. - Informs students about the task they have to do. - Guides the students. - Facilitates the discussion. 	<ul style="list-style-type: none"> - Mahara - Introductory Video - Europe's geomorphological map http://e-geografia.eduportal.gr/maps/map_europe_1/map_europe1.html - Forum (discussion) 	<ul style="list-style-type: none"> - Individual work - Group discussion 	<ul style="list-style-type: none"> - Write on the forum observations about the continent's landform. 	
Activity 2: <i>In pairs!</i>	Subject area goals To be taught the basic geographic features	Collaboration & Communication <ul style="list-style-type: none"> - Students interact, collaborate, and publish with peers, experts, or others 	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 style="list-style-type: none"> - Informs students about the task they have to do. - Guides students. 	<ul style="list-style-type: none"> - Mahara - Student's Book - Digital tool for creating games 	Group work (collaboration in pairs)	<ul style="list-style-type: none"> - Creation of «Climate Game – Europe» 	Peer evaluation (students establish their own criteria)

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
	(position, borders, mountain ranges, seas, rivers). Learn the natural and climatic characteristics of Europe.	<p>employing a variety of tools and environments.</p> <p>Students contribute to project teams to produce original works or solve problems.</p> <p>Creativity & Innovation</p> <p>Students innovating and creatively using tools and resources.</p> <p>Students create original works as a means of expression.</p>	<p>pairs and create an image quiz with questions at http://www.purposegames.com/, using a geomorphological map of Europe, e.g. https://drive.google.com/file/d/0B0v83a5JoZBPMVRxc1o0d05CSEE/view?usp=sharing.</p> <p>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.</p> <p>Task 2.2: Next, teacher asks students to share their game on the forum and play with the games their peers have created.</p> <p>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".</p>	<p>- Facilitates the procedure, whenever is necessary.</p> <p>-</p>	<p>http://www.purposegames.com/</p> <p>- Geomorphological maps https://drive.google.com/file/d/0B0v83a5JoZBPMVRxc1o0d05CSEE/view?usp=sharing.</p> <p>- Forum (peer assessment)</p> <p>- Blog http://europelympiaclass5.blogspot.com.cy/</p>		<p>- Sharing the game on the forum.</p> <p>- Write on the forum evaluation criteria for the game (peer evaluation / peer feedback).</p> <p>- Peer evaluation / peer feedback.</p> <p>- Upload game (after any necessary changes / improvements) on the blog http://europelympiaclass5.blogspot.com.cy/</p>	<p>regarding the evaluation of the game they have created).</p> <p>Peer feedback.</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
Activity 3: Evidence			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. 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”.	<ul style="list-style-type: none"> - Informs students about the entry in My Learning journal. - Informs about the completion of their self-evaluation regarding their ability to collaborate and communicate, and their ability to create and innovate. 	<ul style="list-style-type: none"> - Mahara - My Learning journal - Self-evaluation questionnaire in Drive 	-	Students develop the ability to assess their skills to collaborate and communicate efficiently, and create original works, using tools and sources.	Self-evaluation of collaboration and communication skills. Self-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. Next, teacher asks students to fill in the tab “Setting goals” what they don't know and would like to learn about news programmes.	<ul style="list-style-type: none"> - Prepares the lesson (instructions, presentations) in Mahara. - Guides students to complete My Learning journal. 	<ul style="list-style-type: none"> - Mahara - My Learning journal 	- Individual work	- Students complete the first two tabs in My Learning journal.	
Activity 2: Extreme weather in Europe...	Subject area 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 style="list-style-type: none"> - Informs students about the task they have to do. - Facilitates the discussion. 	<ul style="list-style-type: none"> - Mahara - Video – “Extreme Weather in Europe” 	- Group discussion	Develop verbally their opinions and thoughts about the weather and climatic conditions in Europe.	

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
Activity 3: <i>Group Action!</i>	Subject area goals Students learn the natural and climatic characteristics of Europe.	Information Literacy - Students plan strategies to guide inquiry. - Students evaluate and select information sources and tools based on the appropriateness to specific tasks. - Students locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media. - Students process information and construct new knowledge. Collaboration & Communication - Students interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments. - Students communicate information and ideas effectively to multiple audiences	Task 3.1: Teacher tells students that they will become weather forecasters! More specifically, teacher tells students that after they have been separated in teams, each team will be responsible for a different part of Europe (Eastern, Western, North, South) and will create a weather forecast according to the information they will find on the weather. Group A: Eastern Europe Group B: Western Europe Group C: North Europe Group D: South Europe In particular, teacher instructs that each team will initially have to find information about the following: (a) Information about last week's temperature, sunshine and rainfall. (b) Other information about the weather, e.g. humidity, wind speed. (c) Compare temperatures according to the area's climate (connection with previous tasks). And then, students will present to teacher, who will take on the role of the news director, their team's goal, their ideas and plan of action (i.e. what they will do to achieve their goal, which means they will use to find the information and	- Informs students about the task they have to do. - Guides students. - Facilitates the procedure, whenever is necessary. - Takes on the role of a news director.	- Mahara - Folder for each team on Google Drive Group A: Eastern Europe Group B: Western Europe Group C: North Europe Group D: South Europe - Internet - VOKI Programme - Forum for the presentation of a weather forecaster. - Blog http://europelympiaclass5.blogspot.com.cy/ on "Weatherfor ecasters-weather forecasts-Vokl".	Group work (collaboration)	Each team identifies the required information for the climatic context of the area they will have. Group A: Eastern Europe Group B: Western Europe Group C: North Europe Group D: South Europe - Each team prepares their verbal forecast in the team's folder on Google Drive. - Create a weather forecaster avatar on VOKI .	Peer evaluation (students assess the content of the weather forecast they have created).

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
		using a variety of media and formats. - Students contribute to project teams to produce original works or solve problems. <u>Creativity & Innovation</u> - Students innovating and creatively using tools and resources. - Students create original works as a means of expression.	which means they will use to write their forecast, which role will each member have, etc.) Teacher will give them the required feedback as well as any necessary help towards the sources and materials. Students have to upload the information and their verbal forecast in the team's folder on Google Drive. <u>Task 3.2:</u> After the completion of their verbal forecast, teacher instructs that they have to switch to VOKI and create a weather forecaster avatar, which they have to share on the forum so that they can receive any necessary feedback from their peers. Finally, teacher says that after any necessary changes that will be done based on the feedback they will received, they have to post the weather forecast they have prepared on the blog " Weatherforecasters-weather forecasts- Vokl ".				- Share on the forum, but also on the blog " Weatherforecasters-weather forecasts- Vokl ", the weather forecaster they have made.	
Activity 4: <i>Teacher Assessment</i>			<u>Task 4.1:</u> 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		Inform students about their performance on the subject and the development	Class teacher assessment on level of knowledge and skills level. (see appendix)

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
			be available in the class' personal Google Drive and they can share it in their evidence.				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 discussion. -Guides 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 development. -Students complete the first two tabs in My Learning journal.	
Activity 2: Internet Debate	Subject area goals Students learn the basic	Collaboration & Communication - Students interact, collaborate, and	Task 2.1: Teacher asks students to write in their notebook three reasons in favour of an industrial installation	- Informs students about the task they have to do.	- Mahara - Students' personal notebooks	- Group work (collaboration)	Students interact, collaborate and share	Google Apps Self-assessment

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

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
			<p>-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.</p> <p>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.</p>					
Activity 3: <i>Europe's development</i>	<p>Subject area goals Students learn the basic parameters of Europe's social and cultural development.</p>	<p>Collaboration & Communication - Students interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments. - Students communicate information and ideas effectively to</p>	<p>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</p>	<ul style="list-style-type: none"> - Informs students about the task they have to do. - Guides students. - Facilitates the procedure, whenever is necessary. 	<ul style="list-style-type: none"> - Mahara - Presentation – Colonialism in Europe - Google Slides - E-mail 	<ul style="list-style-type: none"> - Individual work - Group work (collaboration) 	<p>Each team to find the required information that contribute to Europe's development. Each team to prepare 4 slides regarding</p>	<ul style="list-style-type: none"> - Teacher's feedback

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
		<p>multiple audiences using a variety of media and formats.</p> <ul style="list-style-type: none"> Students contribute to project teams to produce original works or solve problems. <p>Creativity & Innovation</p> <ul style="list-style-type: none"> Students innovating and creatively using tools and resources. Students create original works as a means of expression. 	<p>project via e-mail to the teacher for feedback.</p> <p>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).</p> <p>Task 3.2:</p> <p>Teacher informs students that after she has sent them the feedback and they have made the necessary changes, they have to share their presentation on the blog of their unit: http://europelympiaclass5.blogspot.com.cy/.</p> <p>Then, teacher tells students that they have to go to My Learning journal to add in the tab "Evidence" the link to their presentation.</p>				Europe's development.	
LESSON 5 Activity 1: <i>My ePortfolio</i>		<p>Emerging skills</p> <p>Autonomous Learning</p> <ul style="list-style-type: none"> Students evaluate the process and the results, and they provide evidence for their accomplishments. 	<p>Task 1.1:</p> <p>Teacher asks students to create their ePortfolios.</p> <p>More specifically, teacher asks students to create some tabs in their ePortfolio:</p> <ul style="list-style-type: none"> - Profile: present themselves (i.e. name, surname, photo, interests). - "My Learning" Journal: check if their journal is up to date and 	<ul style="list-style-type: none"> - Prepares the lesson (instructions) in Mahara. - Guides students to create their "ePortfolio" for Introduction to Europe. 	<ul style="list-style-type: none"> - Mahara - "ePortfolio - Introduction to Europe" 	<ul style="list-style-type: none"> - Individual work 	<ul style="list-style-type: none"> - Students evaluate the process and the results of the lessons, and they provide evidence for their accomplishments. 	<p>Final _ ePortfolio Assessment Scaffolding Tool for teacher</p> <p>Final _ Skills Assessment Scaffolding</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
			<p>that it appears in the ePortfolio (if not, press edit in the ePortfolio, and from “General” add “Learning Entry”).</p> <ul style="list-style-type: none"> - 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 and citation - link and picture). - 2nd lesson- description (work and citation – link and picture). - 3rd lesson- description (work and citation – link and picture). - 4th lesson- description (work and citation – link and picture). - Evaluation of Transversal Skills: Skills that I have developed in this unit (see your self-evaluations and complete skills but also cite the links). <p>Task 1.2: Teacher asks students to share their ePortfolio with her once they have completed it.</p>				Exemplar e-Portfolio	Tool for teacher

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. Self-evaluation of collaboration and communication skills / Self-evaluation of creativity and

Οδηγία: Χρωματίστε πράσινο το κουτάκι (χρησιμοποιήστε τον κουβί) για να αξιολογήσετε τον εαυτό σας

Φόρμα Αυτοαξιολόγησης - Μάθημα 2ο

Στόχοι:	Καθόλου	Λίγο	Πολύ	Πόρα πολύ
Γνωστικοί				
Δεξιότητες				

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 Β-ΚΑΤΑ

Formative assessment scaffolding tool - Lesson 3:

Class teacher assessment on level of knowledge and skills level innovation skills.

Α. Αξιολόγηση εκπαιδευτικού

Η αξιολόγηση θα γίνει σε Google Sheets και θα είναι στη διάθεση των μαθητών στο δικό τους Google Drive της τάξης. Θα αξιολογηθούν οι εργασίες ως προς:

Περιεχόμενο δελτίου-Ορθότητα	Καταλληλότητα	Λεξιλόγιο	Σύνταξη	Ορθογραφία	Δημιουργικότητα	Βαθμός συνεργασίας	Ψηφιστές δεξιότητες
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- 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

ATS2020

Assessment Scaffolding Tool for Students' ePortfolios

ePortfolio of Learning Cycle 1:
School:
Class:
Teacher Name:

Write here your students' name:

Portfolio Elements	Level		
	1 - Poor	2 - Good	3 - Excellent
Student Profile	The profile does not exist or does not include with clarity and visibility students' information (interests).	The profile includes students' main personal details as well as basic information (interests).	The student profile includes with clarity and visibility all the data and information of the student (e.g., photo, name, date, interests).
My Learning Journal	Learning goals are not clear.	The student has clear learning goals.	The student has clear learning goals and reflections.

https://ats2020-my.sharepoint.com/personal/panayiota_hatzittofi_ats2020_eu/_layouts/15/guestaccess.aspx?docid=02c8f4479f7674f1490f18b5c55ec03f0&authkey=Aab7BzwNui3FI-em9Vh3tcU

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

ATS2020		On funded by the Erasmus+ Programme of the European Union	
Assessment Scaffolding Tool School: _____ Class: _____ Teacher: _____ Learning Cycle 1: _____			
Write here your students' names. Grade their level for each skill (0-3). In case that a skill is not applicable for the learning cycle (unit) then we can leave the cell blank or color the line grey.			
		STUDENTS STUDENT 1 STUDENT 2 STUDENT 3 STUDENT 4 STUDENT 5 STUDENT 6 STUDENT 7 STUDENT 8	
	LEVEL 0	LEVEL 1	LEVEL 2
INFORMATION LITERACY			
1. Plan strategies to guide inquiry		Articulate information needs to satisfy the learning goals so as to start looking for it.	Articulate information needs to satisfy the learning goals and identify goals for their information inquiries so as to start looking for it.
2. Evaluate and select information sources and tools based on the appropriateness to specific		Identify multiple resources that respond to the information inquiry needs.	Apply search techniques that allow them to search for information on different tools and resources.

https://ats2020-my.sharepoint.com/personal/panayiota_hatzittofi_ats2020_eu/_layouts/15/guestaccess.aspx?docid=04fd5116405764518a6a58a16fda4983b&authkey=Acj2QSZqSGKqcrwVq5_S128

Exemplar ePortfolio - Lesson 5:

Profile

My experience

Lesson 1 - Student comments

Student's "My Learning journal"

<http://mahara.ats2020.eu/view/view.php?i=8HsfGd6YvE5p3mVLaxAo>

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



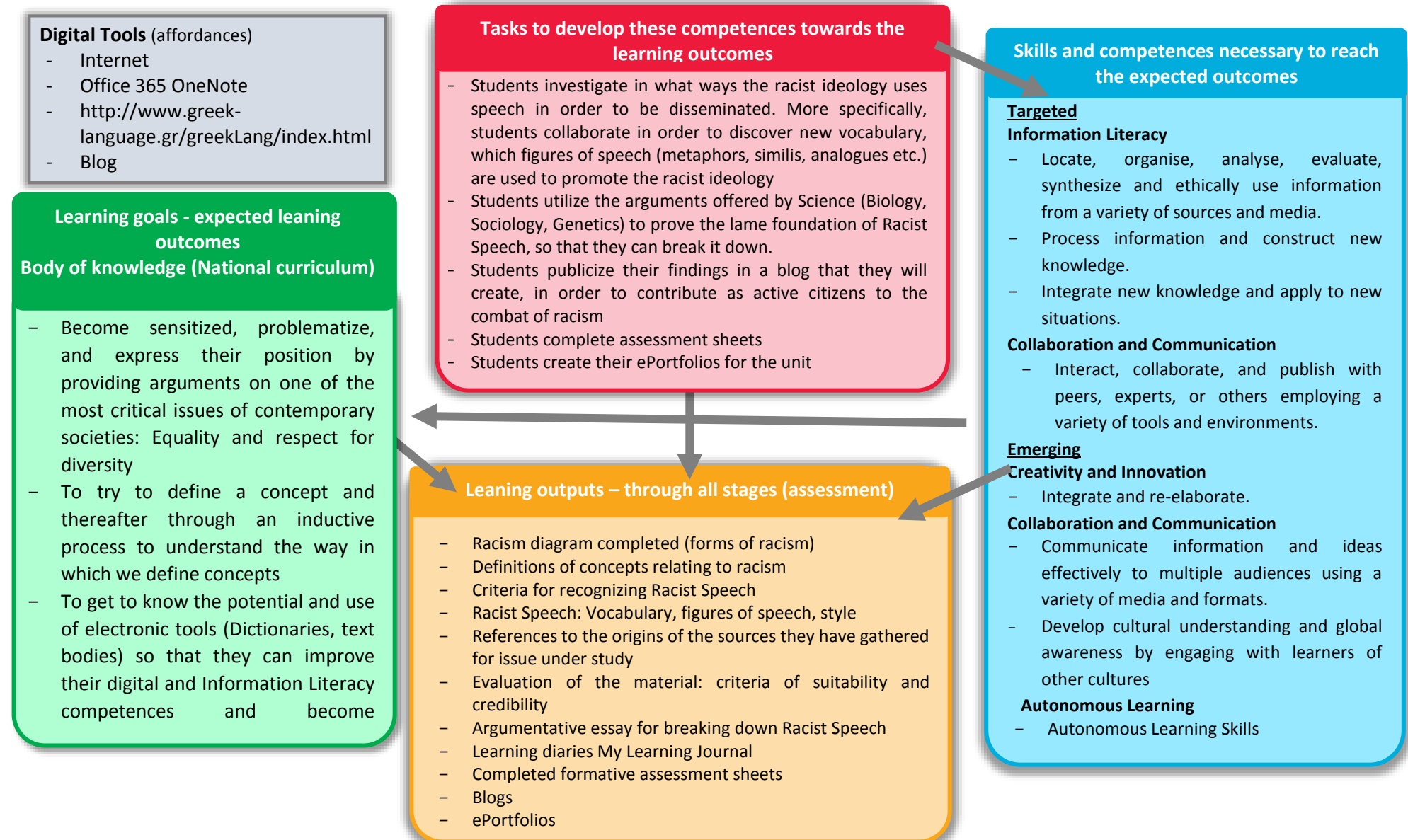
CC BY-NC-SA

Source <https://www.youtube.com/watch?v=QjtCmHoJPwk>*Modern Greek: We are all equal, we are all different*

I. GENERAL DESCRIPTION

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



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal Skills						
Activity 1 Screening of a video animation about racism and its various forms.	Students problematize about different types of behaviour which, while they may seem natural and accepted, they may actually be problematic.	<u>Collaboration and Communication</u> Develop cultural understanding and global awareness by engaging with learners of other cultures. <u>Information Literacy</u> Evaluate and select information sources and tools based on the appropriateness to specific tasks.	<ul style="list-style-type: none"> Students comment on the behaviour of the main character of the video that is presented, they define it, and additionally they try to define the forms in which it is manifested. Students define with the help of the electronic dictionary two other significant terms which are included in 3rd unit http://ebooks.edu.gr/modules/ebook/show.php/DSGYM-C107/675/4493,20226/ of Greek Language text book: “Prejudice” and “Stereotypes”. They also explore the terms, which are provided in p.56 of their textbook, so that they get to familiarize with as many terms as possible See Appendices 	<ul style="list-style-type: none"> The teacher introduces students to the issue of Racism beginning from the actual term. He/She, then, refers to different forms of racism. The teacher refers students to the organizer of the 3rd unit of the textbook where the terms “Stereotypes” and “Prejudice” are included. He/She asks them to relate these terms to the concept of Racism. He/She also refers students to p. 56 of the textbook, to C2 Part Vocabulary, where more terms pertaining to Racism are included. He/She asks students to research these terms in the Text Corpora of the Portal for the Greek Language See Appendices and describe the contexts in which these terms are used. 	<ul style="list-style-type: none"> Video (See Appendices) Electronic Dictionary in the Portal for Greek Language www.greek-language.gr Text corpora in the Portal for Greek Language www.greek-language.gr Diagram Forms of Racism. See <i>Materials-Resources-Tools</i>, 5 in Appendices 	<ul style="list-style-type: none"> Video Screening in the plenary Students work in pairs to define Racism Students work in pairs for providing a definition on Racism Research different forms of racism on the internet (individual work) 	<ul style="list-style-type: none"> Racism: Definition Forms of Racism “Prejudice”, “Stereotypes”: Provide definition and examples for these terms as well as for the terms that are mentioned in page 56 of the student’s textbook, part C2. 	<ul style="list-style-type: none"> Fill in the diagram- different forms of racism. Fill in the table with the terms that need to be defined Context of the terms: Word document in which different quotations are included
Activity 2 Work with electronic dictionary and body texts in the Portal for the Greek Language http://www.greek-language.gr/greekLang/modern_greek/tools/corpora/index.html	Students try to define racism, and to understand how we define a concept and how we break it down into different components (forms of racism) –See <i>Modern Greek Language 3rd Grade, Unit 6, p. 116</i>	Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media						

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

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal Skills						
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 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. – Effective use of search engine machine	Students research examples of Racist Speech, as well as the communicative situations in which it occurs. They start from the textbook (text 5, p.53). Available at http://archeia.moec.gov.cy/sm/310/c_gym_neolliniki_glossa_vilio_mathiti.pdf/	The teacher supervises students' work, and provides help when needed (searching informational sources, communicative situations etc.)	– Internet – School textbook	Work on the computers	A variety of materials containing Racist Speech, political speeches, jokes, comics, advertisements	Formative assessment tool for the unit. See 9 in Materials-Resources-Tools in Appendices
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.	– Students study the material and extract the main elements based on certain characteristics – Assessment of the effectiveness of certain choices	– <u>Information Literacy</u> Process information and construct new knowledge.	Students analyse the materials that they have gathered, extract the main characteristics of Racist Speech, and evaluate their impact.	The teacher assists students in analysing the material and drawing their conclusions.	Audio-visual material and written texts from the Internet.	Students work in groups; they discuss, and work out solutions	A written text containing the main characteristics of Racist Speech	A questionnaire for the assessment of group work See Appendices Materials-Resources-Tools , (point 8)

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal Skills						
Activity 7 Completion of the <i>My Learning Journal</i> (field 4-Evidence).		<u>Autonomous Learning</u> Evaluate process and results and provide evidence for achievement.	– Students provide the evidence of their learning		<i>My Learning Journal</i> (<i>Materials-Resources-Tools</i> ,6) in Appendices	Individual work	– A variety of materials – (Written texts, audios, images, advertisements etc.)	<i>My Learning Journal</i> (field 4)
Activity 8 Students prepare the counterargument to the materials that they have collected, taking a stance against racism.	Students write an argumentative text with which they break down the argumentation of racism.	<u>Creativity and Innovation</u> Integrate and re-elaborate.	Students collect material from various sources; they prepare their argumentation (biology, religion, literature, history)	The teacher provides guidance when needed	Internet	Individual work	Argumentative text	Tool: Structure of the argumentative text. See <i>Materials-Resources-Tools</i> , 10 in Appendices , 10
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	Students follow instructions in order to create their blogs, and upload their material.	The teacher supports students in creating blogs	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.	– The teacher acts as a facilitator. He/She refers students to supportive materials (See <i>Materials-Resources-Tools</i> Materials, 11 in Appendices – He/She assesses students' ePortfolios	-Office365 OneNote -Tool Instructions for the development of ePortfolio -See <i>Material Resources-Tools</i> , 11 in Appendices	Individual work in OneNote	Students' ePortfolios	Assessment Scaffolding Tool for Students' ePortfolios Available at: https://resources.arts2020.eu/resources/details/SCTS/assessmentToolPortfolio

IV. Material, resources and students' artefacts

	ACTIVITY	MATERIALS-RESOURCES- TOOLS
1	Introduction to the issues of Racism and Diversity	<ul style="list-style-type: none"> Screening of an animation in which the issue of Racism is raised titled <i>The glasses of Diversity</i> https://www.youtube.com/watch?v=laW8e9uNDsM
2	Understanding of the definition of a concept	<ul style="list-style-type: none"> Modern Greek textbook 3rd Grade Secondary School, p. 56 Available at: http://archeia.moec.gov.cy/sm/310/c_gym_neolliniki_glossa_vilio_mathiti.pdf Text Corpora http://www.greek-language.gr/greekLang/modern_greek/tools/corpora/index.html Forms of Racism Diagram. Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit <i>Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</i>
3	Investigation of concepts about equality and diversity	<ul style="list-style-type: none"> Modern Greek textbook 3rd Grade Secondary School, p. 56 Available at: http://archeia.moec.gov.cy/sm/310/c_gym_neolliniki_glossa_vilio_mathiti.pdf
4	Researching dictionary entries to define related concepts	<ul style="list-style-type: none"> Text Corpora http://www.greek-language.gr/greekLang/modern_greek/tools/corpora/index.html Dictionary of standard Modern Greek http://www.greek-language.gr/greekLang/modern_greek/tools/lexica/triantafyllides/index.html
5	Discussion about the main characteristic of Racist Speech	<ul style="list-style-type: none"> Worksheet: Criteria for detecting Racist Speech Available at: https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit <i>Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</i> Forms of Racism Diagram. Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit <i>Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</i>
6	Monitoring of the Learning Process	<ul style="list-style-type: none"> <i>My Learning Journal</i> for this particular unit. Tool available at https://resources.ats2020.eu/resource-details/ADM/learning_journal_en
7	Text to be used as a starting point for researching informational sources on the internet	<ul style="list-style-type: none"> Modern Greek textbook 3rd Grade Secondary School, text 5, p.53 Available at: http://archeia.moec.gov.cy/sm/310/c_gym_neolliniki_glossa_vilio_mathiti.pdf
8	Formative Assessment tool for Collaboration and Communication skills	<ul style="list-style-type: none"> Formative Assessment tool for Collaboration and Communication skills Available at: https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit <i>Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</i>

9	Formative Assessment tool for the Information Literacy skills	<ul style="list-style-type: none"> Formative Assessment tool for the Information Literacy skills Available at: https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit <i>Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</i>
10	Assessment tool for teacher	<ul style="list-style-type: none"> Structure of an argumentative text. Available at: https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under the unit <i>Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί</i>
11	Instructions for the creation of an ePortfolio	<ul style="list-style-type: none"> Instructions for the creation of an ePortfolio Available at: https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under <i>We are all equal, we are all different</i>

Formative Assessment Tool 1

Formative Assessment tool for Collaboration and Communication skills Available at: https://ats2020-my.sharepoint.com/personal/nicolina_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: https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under *Είμαστε όλοι ίσοι- Είμαστε όλοι διαφορετικοί*

Formative Assessment Tool 3

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

A student's ePortfolio

https://ats2020-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”



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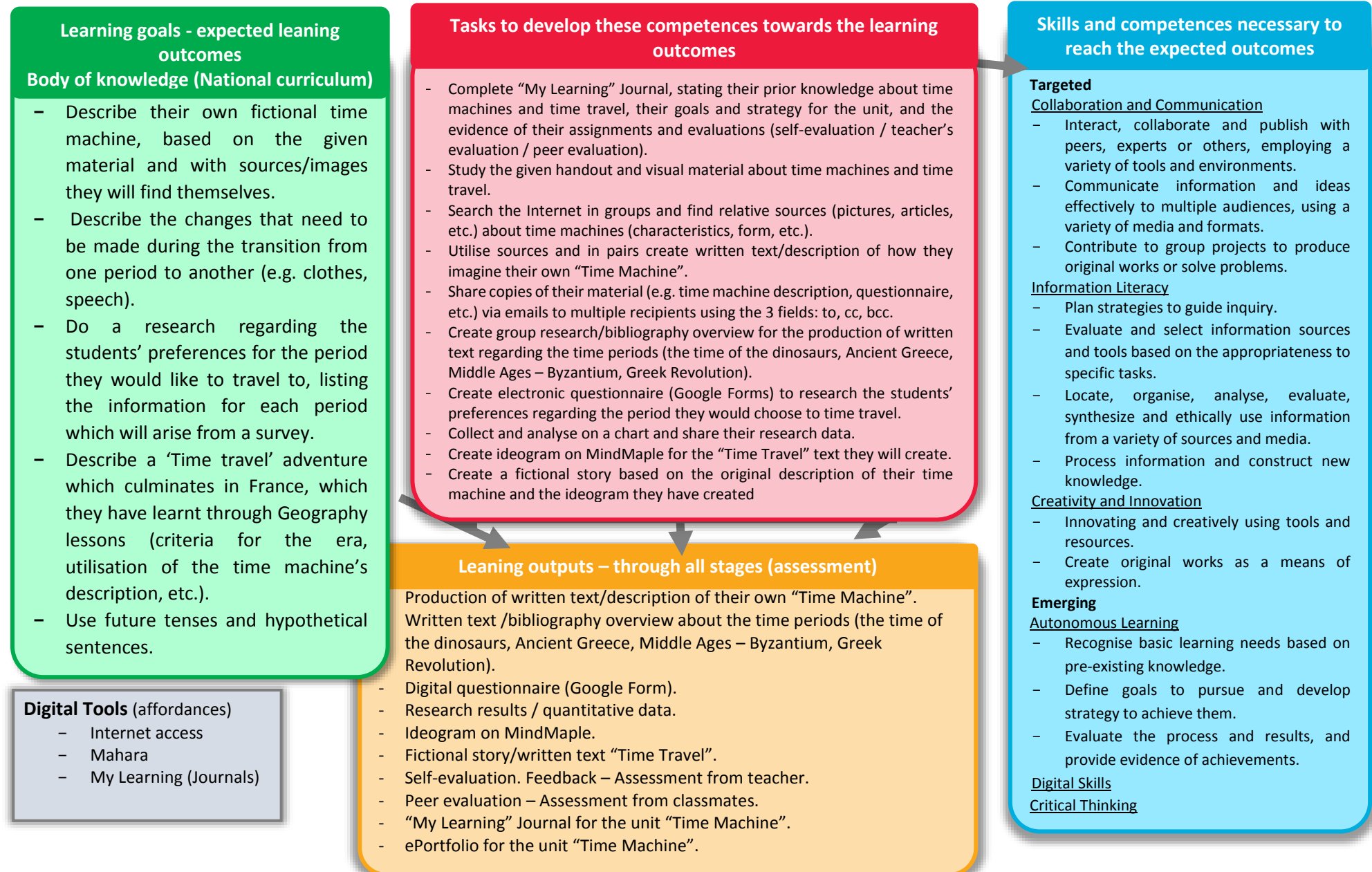


Greek Language: Mysteries – Science Fiction – “Time Machine”

I. GENERAL DESCRIPTION

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: http://mahara.ats2020.eu/group/view.php?id=540 Learning Design in English: https://resources.ats2020.eu/resource-details/LEDE/time_machine
Learning Design in Greek	https://resources.ats2020.eu/resource-details/LEDE/time_machine_el

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
LESSON 1: Travelling with the Time Machine Introduction to the unit's goals			Unit goals Teacher informs students about the unit's targeted goals, according to which students have to: <ol style="list-style-type: none"> 1) Describe their own fictional time machine, based on the given material and with sources/images they will find themselves. 2) Describe the changes that need to be made during the transition from one period to another (e.g. clothes, speech). 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. 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.). 5) Use future tenses and hypothetical sentences. 	<ul style="list-style-type: none"> - Prepares the lesson (goals, instructions, presentations, Google Forms) on Mahara. - Informs students about the unit's goals. 	Mahara	Class discussion	<ul style="list-style-type: none"> - 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:	<ul style="list-style-type: none"> - 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	<ul style="list-style-type: none"> - Individual work 	<ul style="list-style-type: none"> - Students complete the first three tabs in “My Learning” Journal, defining thus their prior knowledge 	

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
			<p>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".</p> <p>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.</p> <p>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.</p> <p>Task 1.2:</p> <p>Then, teacher asks students to go to "Briefcase" on Mahara and create a new page which they will name "My ePortfolio - Time Machine".</p> <p>Next, teacher asks students to join the tab "My Learning – Time Machine" with the tab "My ePortfolio - Time Machine".</p> <p>More specifically, teacher asks students to click edit in 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.</p> <p>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.</p>	and add their "My Learning" Journal and their personal information.			<p>of the unit, their goals and the strategy which they will employ.</p> <p>- Students create "My ePortfolio – Time Machine" and add their "My Learning" Journal and their personal information in "Profile".</p>	

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

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
		others, employing a variety of tools and environments. Students contribute to group projects to produce original works or solve problems.	<p>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).</p> <p>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 sent.</p> <p>Meanwhile, teacher mentions that Mrs Giorgalli₂ must receive a copy of the email and her email address should be entered in the field (bcc), explaining that in this way whoever is mentioned in the field bcc will receive a copy of the email but no one else can see them. So Mrs Eleutheria can see that a copy has been sent to Mrs Panayiota and Mr Constantinos but NO ONE can see Mrs Eleutheria, neither Mrs Panayiota nor Mr Constantinos.</p> <p>Finally, after they have made the necessary changes based on the given feedback, teacher asks students to add the link of their assignment in the tab "Evidence" in the journal "My Learning – Time Machine".</p>				<ul style="list-style-type: none"> - 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			<p>Next, teacher asks students to find on Drive the file (file) with their name and complete their self-evaluation table.</p> <p>Then, she asks them to go to "My Learning" Journal and add the link of their self-evaluation in the tab "Self-evaluation".</p>	- Informs students about their self-evaluation regarding their skills of information literacy and collaboration and communication.	-Mahara -Self-evaluation questionnaire on Drive - "My Learning" Journal	Individual work	Students to evaluate their skills of collaboration and communication and information literacy.	Self-evaluation Tool 1

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
LESSON 2 Time Travel! Activity 1: Travelling in the future can become a reality		Collaboration & Communication Students communicate information and ideas effectively to multiple audiences, using a variety of media and formats.	Tasks 1.1: Teacher asks students to find Lesson 2 on Mahara and click on the link https://deltahacker.gr/timetravel/ to read the text “Does time travel exist already?” After reading the text, teacher asks students to write down their thoughts about what they have read in the field “Comments” at the bottom of the lesson page on Mahara . Next, teacher asks students to share their thoughts with the rest of the class, leading thus into an open discussion about time travel.	- Guides students in the task and the discussion.	Mahara Text “Does time travel exist already?” at https://deltahacker.gr/timetravel/	- Individual work	- Students find relevant information about time travel and share their thoughts with the class.	
Activity 2: Let's Investigate	Subject area 1. Describe the changes that need to be made during the transition from one period to another (e.g. clothes, speech). 2. Do a research regarding the students' preferences for the period they would like to travel to, listing the information	Collaboration & Communication - Students interact, collaborate and publish with peers, experts or others, employing a variety of tools and environments. - Students contribute to group projects to produce original works or solve problems. Information Literacy	Task 2.1: Teacher tells students that since travelling in time may become a reality in the future to conduct a similar research like the one the students in their Student's book page 64 have conducted so that they can find in which period the students of Primary School Lympron wish to travel to. First, teacher asks students to split into four (4) groups before they begin their research and find information about the 4 time periods: the time of the dinosaurs, Ancient Greece, Middle Ages – Byzantium, Greek Revolution. She explains to the students that before they ask the students of Primary School Lympron, they have to prepare material (a small presentation) for these four (4) periods so that they can inform the students. Teacher divides the students into four (4) groups and after they have found information on the Internet about the period that was	- Prepares lesson (instructions, texts, Google Forms, presentations ppt) on Mahara . - Informs students about the task they have to do. - Guides and facilitates the students.	- Mahara - Greek Student's Book (Volume 2) - Google Docs files. Group A: The time of the dinosaurs Group B: Ancient Greece Group C: Middle Ages- Byzantium	- Group work	- Students find information about the time periods: the time of the dinosaurs, Ancient Greece, Middle Ages- Byzantium, and Greek Revolution. - Students prepare a presentation about the periods (the time of the dinosaurs,	

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
	for each period which will arise from a survey. 3. Use future tenses and hypothetical sentences.	<ul style="list-style-type: none"> 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 ethically use information from a variety of sources and media. Students process information and construct new knowledge. 	<p>assigned to them, she asks them to prepare in the file Google Docs that has been assigned to them a small presentation.</p> <p>Group A: The time of the dinosaurs Group B: Ancient Greece Group C: Middle Ages-Byzantium Group D: Greek Revolution</p> <p>Teacher informs that their presentation needs to include the following information:</p> <ul style="list-style-type: none"> • 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. <p>Teacher asks students to go to "My Learning" Journal and add the link of their group assignment in the tab "Evidence".</p>		Group D: Greek Revolution		Ancient Greece, Middle Ages-Byzantium, and Greek Revolution) and mention the relevant sources of their information.	
Activity 3: Research "Time Travel"		<p>Collaboration & Communication</p> <ul style="list-style-type: none"> Students interact, collaborate and publish with peers, experts or others, employing a 	<p>Task 3.1:</p> <p>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..."</p> <p>Next, after completing the questionnaire, teacher asks students to embed it on the class blog along with the presentations they have</p>	<ul style="list-style-type: none"> - Informs students about the task they have to do. - Guides and facilitates the procedure whenever is necessary. 	<ul style="list-style-type: none"> - Mahara - Greek Student's Book (Volume 2) - Google Forms - Class blog 	<ul style="list-style-type: none"> - Group work 	<ul style="list-style-type: none"> - Students create an electronic questionnaire (Google Forms) for their research. - Students embed the questionnaire 	

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

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
		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.					- Students share the results on the class blog.	
Activity 5: Self-evaluation			Teacher asks students to find on Drive the file (self-evaluation report) with their name and complete their self-evaluation table. Next, she asks them to go to "My Learning" Journal and add the link of their self-evaluation in the tab "Self-evaluation" .	- Informs students about their self-evaluation regarding their skills of information literacy and collaboration and communication.	- Mahara - Self-evaluation questionnaire on Drive - "My Learning" Journal	- Individual work	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	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
			-Who would they like to meet? -What is the secret hidden in the history and period they will travel to? - What are they hoping to discover about it? -What else would make their journey exciting for the reader? -Their journey should end in Magical France! Teacher informs that they should also take into consideration that: -If they talk about the past, they have to use <u>past tenses</u> . -If they talk about the future, they have to use <u>future tenses</u> .				during the writing process.	
Activity 2: Pre-writing Phase		Collaboration & Communication - Students interact, collaborate and publish with peers, experts and others, employing a variety of tools and environments. Creativity & Innovation - Students innovate and creatively use tools and resources.	Task 2.1: Teacher asks students to create in pairs an ideogram on MindMaple (example HERE), which should include their original ideas for the description they have to do. Teacher stresses that their ideogram has to be based on the criteria they have been given, i.e. the period's characteristics, the heroes, the mystery, the revealing/exciting fact, useful words for describing, etc. Finally, teacher informs students that after they have prepared their ideogram, they have to upload it in the folder on Google Drive https://drive.google.com/drive/folders/0B0v83a5JoZBPVnltZUtlbnl4Nms?usp=sharing , and add the link in the tab Evidence in "My Learning" Journal and also add the image after they have taken a screenshot of it.	- Informs students about the task they have to do. - Facilitates the process whenever is necessary. - Informs students about "My Learning" Journal entry.	Mahara - Ideogram on MindMaple - "My Learning" Journal	Group work	Students prepare on an ideogram the original ideas for the description they will do.	

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
Activity 3: Writing Phase	Subject area goals 1) 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.). 2) Use future tenses and hypothetical sentences.	Collaboration & Communication - Students interact, 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. Creativity & Innovation - Students create original works as a means of expression.	Task 3.1: Teacher tells students that they have to click on the link ' Time travel ' from the lesson on Mahara and create a file in the particular folder, where they have to write their story, using their original description for their time machine and their ideogram. After each group uploads their descriptive text about time travel, teacher asks students to use the file in the Drive file to proceed in peer evaluation and give feedback to their classmates about their assignment. Finally, after students have evaluated the comments and the peer evaluation of their assignment and made the necessary changes, teacher asks students to go to " My Learning " Journal and add their assignment in the tab " Evidence ".	- Informs students about the task they have to do.	- Mahara - Each group's file on Google Drive in the folder ' Time Travel ' - " My Learning " Journal	- Group work	Students create their own descriptive text about time travel. - Students evaluate the comments from their classmates' feedback on the context of their text and make the necessary changes on their descriptive text.	Peer evaluation (students evaluate the context of their classmates' descriptive text " Time Travel "). Evaluation 3
Activity 4: Self- evaluation – Peer evaluation			Task 4.1: Teacher asks student to find on Drive the file (Drive) with their name and complete their self-evaluation – peer evaluation table.	- Informs students about the evaluation process.	- Mahara - Class evaluation on file on	Individual work	-Students evaluate their skills of collaboration and	Evaluation 4

Activity	Learning goals - outcomes		Tasks (students/teacher)	Teacher's role	Tools	Methodology - Classroom Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
			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)		communication, information literacy and creativity and innovation.	
LESSON 4 Let's create our ePortfolio! Activity 1: Guidance		- Autonomous learning	Task 1.1: 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 st lesson – assignment (description and citation – link and image) -2 nd lesson -assignment (description and citation- link and image) -3 rd lesson - assignment (description and citation - link and image) -Skills I have developed in this unit (refer to their self-evaluations and complete the skills, but also add the links).	- Prepares lesson (instructions) on Mahara. - Guides students on how to create their ePortfolio .	Mahara ePortfolio	- Individual work	Students can 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	
Activity 2: Presentation and Distribution of ePortfolio.			Task 2.1: Teacher asks students to share with her their ePortfolio page for the final evaluation.	- Explains to students the self-evaluation process.	- Assessment tool on Drive .	- 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 Arrangement	Expected learning outputs	Assessment tool
	Subject area	Transversal skills						
Self-evaluation ATS2020 Transversal Skills			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 Drive .				tool of ATS2020 transversal skills.	teacher evaluates the student's ePortfolio. Evaluation 5 Final assessment tool which students evaluates the 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

The screenshot displays a web-based ePortfolio interface for a student named Γιώργος Σάββα (gseiva). The page is titled "My e-portfolio- Μηχανή του χρόνου" and is part of the "ATS2020" project. The interface is in Greek and features several sections:

- Student's profile:** Located on the left, it includes a profile picture and personal information such as "Όνομα: Γιώργος", "Επώνυμο: Σάββα", "Επάγγελμα: μαθητής", and "Υπηρεσία/Επιχείρηση: Δημοτικό Σχολείο Λυμπίων - Ε'2".
- My experience in this unit:** A central section titled "Η εμπειρία μου" (My experience) with an orange header. It contains text about the student's experience with the "Time Machine" unit and a cartoon illustration of a character sitting at a desk.
- Lesson 1 activities:** A section titled "Μάθημα 1ο" (Lesson 1) with a purple header. It describes the first lesson, "Καταχώρηση μάθησης" (Learning registration), and includes a video player for a trailer.
- My Learning journal:** A section titled "Η μάθηση μου - Μηχανή του χρόνου" (My learning - Time Machine) with a red header. It includes a sub-section "Προηγούμενη γνώση" (Previous knowledge) and text about the student's learning process.

Annotations with arrows point to these sections: "Student's profile" points to the profile section, "My Learning journal" points to the "Η μάθηση μου - Μηχανή του χρόνου" section, "My experience in this unit" points to the "Η εμπειρία μου" section, and "Lesson 1 activities" points to the "Μάθημα 1ο" section.

<http://mahara.ats2020.eu/view/view.php?t=nCho2WHlCg3kjpATwVqI>

Physics: Heat and Calorimetry



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*Physics: Heat and Calorimetry*

I. GENERAL DESCRIPTION

Country	Cyprus
Author/Editor	Manolis Kyriakakis
School	Engomi Gymnasium- Kyriakos Neocleous
Subject	PHYSICS
LD Title	Heat and Calorimetry
Year group	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.

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

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

III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
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 molecules in solids, liquids and gases, by the use of simulations.	<u>Information Literacy</u> - Process information and construct new knowledge. <u>Digital Literacy and Communication skills</u> - 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	The teacher provides 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.	- Simulations for the interpretation of molecular structure- See Appendices - Videos for the molecular structure- See Appendices - Worksheets on the Molecular structure of matter- See Appendices	Students are sitting in groups, and attend their teacher's presentation on the molecular structure of the natural states of matter.	- Molecular motion in solids, liquids, and gases, by the use of a simulation. - Worksheets completed by students	- 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 Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
			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 heat absorbed or	Students verify in an experimental 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.	<u>Information Literacy</u> Students draw conclusions from the data collected during implementation of the appropriate experimental schedule. They process information and construct new knowledge. <u>Collaboration and Communication</u> Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments. <u>Creativity and Innovation</u> Students identify needs (resolve a question), and utilize	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 groups. If there is time available, students write down their observations in their private notebooks (OneNote) while experimental work takes place. Students are expected to	- 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 Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
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' <i>My Learning Journals</i> - (See in Appendices <i>My Learning Journal for the Unit</i>)
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 Capacity C.	Students put forward the mathematical relationship of calculating the amount of heat that is transferred to and from a body. Students evaluate and explain the importance of heat capacity of the water in everyday life	<u>Collaboration and Communication</u> Interact, collaborate, and publish with peers, experts, or others employing a variety of tools and environments.	The teacher brings back to the lesson his/her initial presentation and asks students to mention the factors that affect heat. He/She summarizes the factors, and the students answer the questions raised about the factors. The mathematical relationship about Calorimetry is formulated in the plenary. The physical quantities as well as the measurement units that will be used are written down. Discussion takes place about the factor "water", and the Specific Heat Capacity is defined.	-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 groups. -The 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 about the	- Worksheet on Calorimetry (See Appendices) - PPT presentation-Material on Calorimetry containing the example with the water and the sand- 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).	- Mathematical relationship for calculation of the amount of heat transferred from or to a body: $\Delta Q = m c \Delta T$ - Definition of Specific Heat Capacity c. - Discussion about the effect of the large Heat Capacity of water in everyday life e.g. climatic conditions	- Assessment of the students' private notebooks as well as of the degree of participation in the <i>Collaboration Space (OneNote)</i> of each group. - Homework based on the worksheet.

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology Classroom Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
				<p>measurement units of physical quantities</p> <ul style="list-style-type: none"> -The Specific Heat Capacity C, relevant to the type of material is defined. -The teacher comes back to the natural phenomenon of the sand and the sea, and asks students to provide an interpretation (type of material). 				
Worksheet on quantitative applications of Calorimetry (1 period) Students solve quantitative applications of the mathematical relationship of Calorimetry	Students apply the mathematical relationship of Calorimetry	<u>Information Literacy</u> Students integrate new Knowledge and apply it to new quantitative problems <u>Autonomous Learning</u> Students through completion of formative assessment questionnaires (on Calorimetry and scaffolding tool) reflect on their learning, and explore alternative approaches (new approach when knowledge gaps and	Students solve the quantitative applications in class. They discuss with the teacher potential questions or difficulties. They answer the multiple choice questions about Calorimetry in OneNote (o365.ats2020.eu)	The teacher answers students' questions whilst they are solving the quantitative applications. Teacher receives information about the development of students' ePortfolios, and provides guidance	<ul style="list-style-type: none"> - Worksheet on quantitative applications - (See <i>Quantitative Applications of relationship of Calorimetry</i> – See Appendices - Multiple Choice Questions in OneNote application - Formative Self-Assessment Scaffolding Tool of Students' Competences and Skills - https://resources.ats2020.eu/resources 	Individual work-solving of quantitative applications of the mathematical relationship of Calorimetry Individual work – completion of questionnaire	Quantitative Applications of the relationship $\Delta Q = m c \Delta T$ - 	<ul style="list-style-type: none"> - Assessment is ongoing and formative during the solving of quantitative applications - Completion of questionnaire 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 Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
		questions arise in the unit of Calorimetry).			details/SCTS/assessment-student			Scaffolding Tool of Students' Competences and Skills - https://resources.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

APPENDICES

	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&authkey=Aa5LXMqbFyit-jxz9my2nDg See also: https://resources.ats2020.eu/resource-details/ADM/learning_journal_en
2	Molecular structure of the natural states of matter.	<ul style="list-style-type: none"> - Simulations for the molecular structure of matter: Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου) - A video about the molecular structure of the natural states of matter: Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου)
3	Experimental investigation of the relationship determining the change of temperature of a body.	<ul style="list-style-type: none"> - Worksheets: Molecular structure of matter. Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου) - Activity on the natural states of matter. Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου) - Worksheets on Calorimetry. Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου) - PPT presentation material on Calorimetry. Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου)
4	Formulation of the mathematical relationship of Calorimetry	Worksheet: Quantitative Applications of the relationship of Calorimetry Available at https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg under Θερμότητα- Θερμιδομετρία (Φυσική Γ' Γυμνασίου)
5	Formative Assessment	Formative Assessment on Calorimetry https://ats2020-my.sharepoint.com/personal/nicolina_markidou_ats2020_eu/_layouts/15/guestaccess.aspx?folderid=0097fc6c02f7c4ab69de70549e4f49959&authkey=Aa5LXMqbFyit-jxz9my2nDg

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

Έργασία θερμικής μόνωσης

Wednesday, April 3, 2025 1:50 PM

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: σίδηρο, 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.

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

Χρόνος (Λεπτά)	Μεταλλικό ποτηράκι	Ποτηράκι από πολυστερίνη	Γυαλίνο ποτηράκι
0	88	88	88
0.5	83	84	78
1	48	82	66
1.5	46	81	62
2	39	80	59
2.5	36	80	56
3	36	79	53
3.5	37	79	51
4	36	77	49
4.5	36	76	47
5	36	76	46

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

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

Πειράματα θερμοδομετρίας

Wednesday, April 3, 2025 1:50 PM



Αρχικά ζεστάνουμε τα δοκ. μπουκία με νερό και χρονομετρώμε το χρόνο που εβράσαν τα δοκ. υλικά. Όταν το νερό του Νίκου σφίχθηκε κατά 5 βαθμούς κελσίου από την αρχική του θερμοκρασία, σημειώσαμε την τελική του θερμοκρασία και συνεχίσαμε να χρονομετρώμε για το νερό του Παύλου. Όταν το νερό του Παύλου ζεστάθηκε κατά 10 βαθμούς κελσίου δηλαδή διπλασία σταμάτησαμε το χρονομέτρο και σημειώσαμε την τελική θερμοκρασία του νερού του Παύλου.



Τα όργανα μέτρηση που χρησιμοποιούμε είναι χρονομέτρο, θερμομέτρο, λυχνίος και ζυγαριά.

Design and Technology: Energy – Environmental Issues



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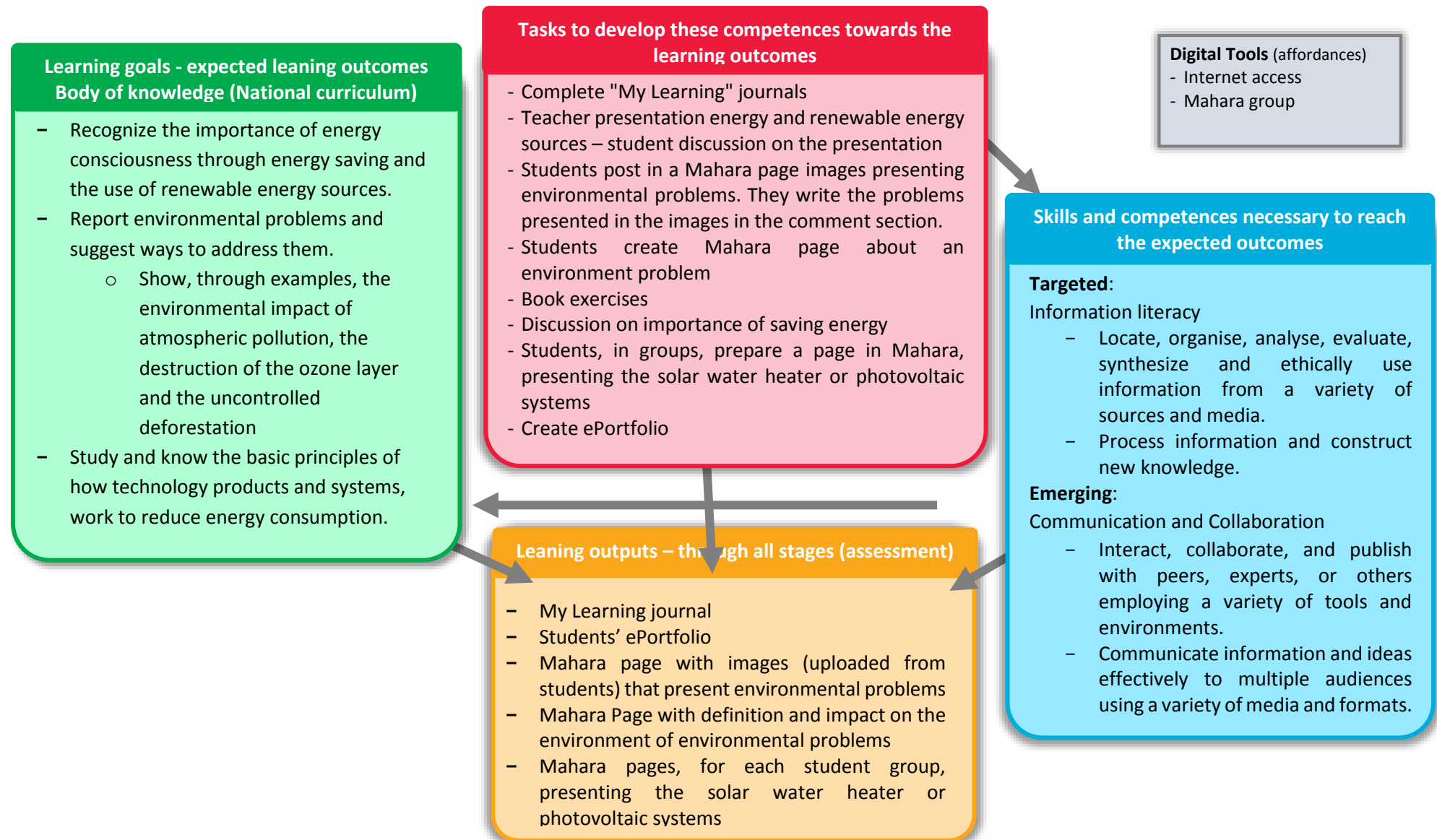


Design and Technology: Energy – Environmental Issues

I. GENERAL DESCRIPTION

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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
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.	Gives guidelines for the completion of learning journals	-Learning journals in Mahara -Instructions in Mahara about creating and filling learning journal	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), non-renewable energy sources (examples, advantages and disadvantages). (With the use of software, presentation, video). A discussion with students about the presentation follows.	Presents the basic concepts of the unit	- Software use - Presentation Video	Teacher presentation		<u>Teacher</u> Observes students participation in the discussion
Mahara page on environmental problems	Report environmental problems and suggest ways to address them. - Show, through examples, the environmental impact of atmospheric	<u>Information literacy</u> - Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media. - Process information and construct new knowledge.	- Students locate an image online that presents an environmental problem. Then they upload it to a common page in Mahara's environment. In the comment section on the page, everyone writes the environmental	-Gives instructions Helps students to locate pictures online	- 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,	<u>Teacher</u> Checks whether the students have done their exercise in the Mahara page

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

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment
	Subject area	Transversal skills						
	technology 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.	exercise with a Power Authority account -page 53) Discussion with students about the necessity of energy saving in the current era and systems that help reduce energy consumption.	-Discusses with the students about saving energy				discusses with them the way of solving the exercises
Mahara page - solar water heater or photovoltaic systems	Same as above	<u>Information literacy</u> - Locate, organise, analyse, evaluate, synthesize and ethically use information from a variety of sources and media. - Process information and construct new knowledge. <u>Communication and Collaboration</u> - 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.	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)	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	<u>Peer evaluation</u> Appendix (formative assessment tool)
ePortfolio creation		<u>Communication and Collaboration</u> Communicate information and ideas effectively to multiple audiences using a variety of media and formats.	"My Learning" journal – Reflection Students create their ePortfolios	Gives instructions	Mahara	Individual work	Completed learning journals ePortfolio for every student	<u>Teacher</u> 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 Μαριαλένα Καραμπίνα

Επεξεργασία σελίδας

Copy

Αυτή είναι η σελίδα του ePortfolio μου για την ενότητα ενέργεια

Profile information

Πληροφορίες προφίλ

Επάγγελμα: Μαθήτρια
 Υπηρεσία/Επιχείρηση: Γυμνάσιο
 Λύκειο Λευκάριων ΓΓ
 Όνομα: Μαριαλένα
 Επώνυμο: Καραμπίνα



Σ&Τ- Ενέργεια

"My Learning"
journal

Προηγούμενη γνώση

Ξέρω

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

Στόχοι και κριτήρια επιτυχίας

Στόχος

1. Να μάθω όλες τις πηγές ενέργειας
2. Να μπορώ να εξηγή σε κάποιον τι είναι 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 αναλώσιμες πηγές ενέργειας και τις μη αναλώσιμες πηγές ενέργειας. Ναι είμαι ικανοποιημένη από την συνεργασία που είχα με τους συμμαθητές μου. Βρήκα εύκολα πληροφορίες από το διαδίκτυο. Δεν έχω 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

Εργασία περιγραφή περιβαλλοντικού 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)

Εργασία για Ηλιακό Θερμοσίφωνο

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 σωλήνες 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.

Οι ηλιακοί θερμοσίφωνες λειτουργούν από δύο είδους τους, αποτελούνται από δύο βασικά μέρη:

- **Το 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

English as a Foreign Language: London

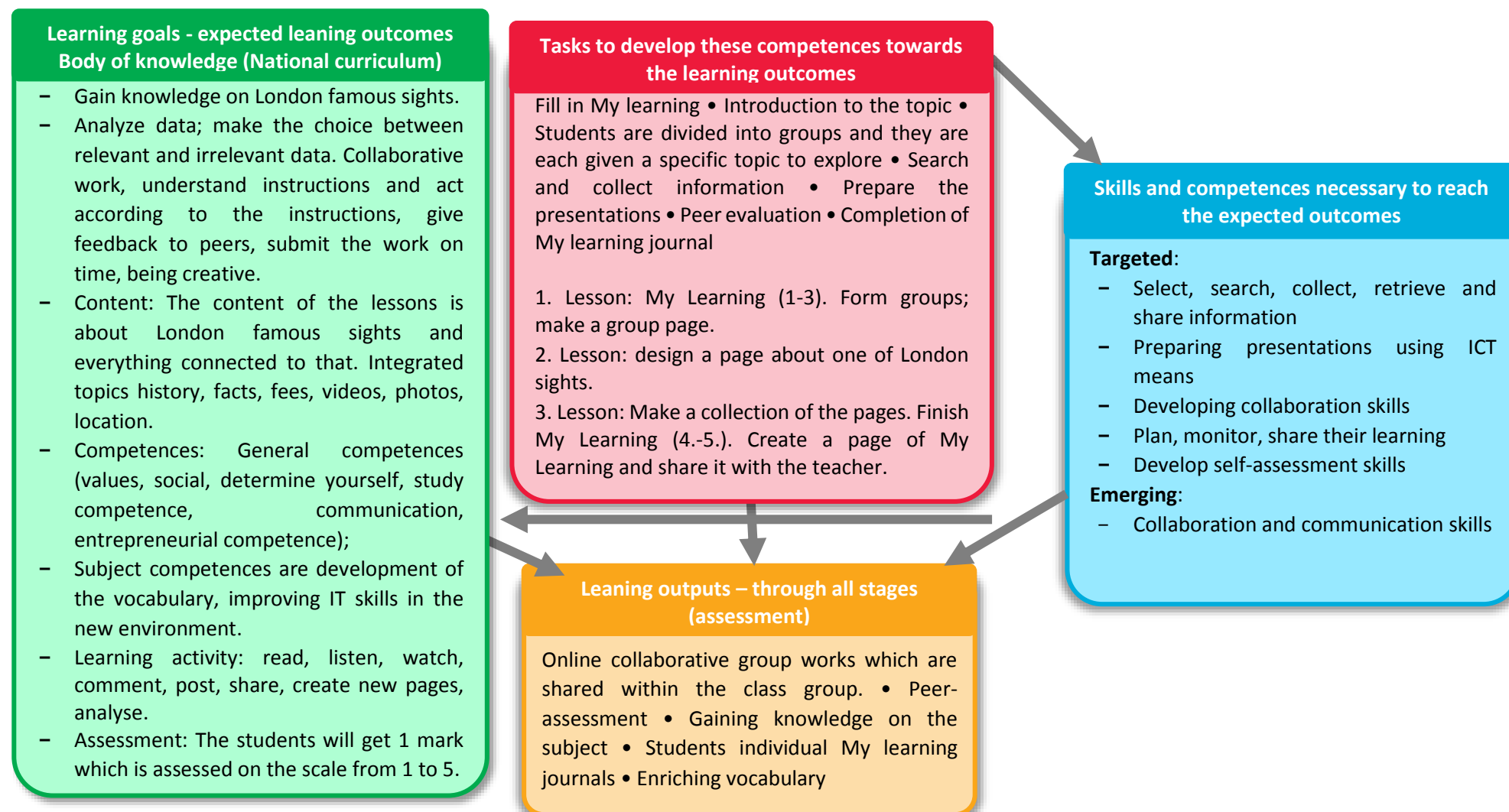


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*English as a Foreign Language: London***I. GENERAL DESCRIPTION**

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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
Activity 1 Fill in My Learning points 1.-3.		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 style="list-style-type: none"> 1. A picture of the object. 2. A video of the object (max 5 min). 3. 5 facts about the object. 4. A picture of the location of the object. 5. The entrance fee to the object. 6. The history of the object (max 100 words). 	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 5.-6.	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.	

Lithuanian language: Tales

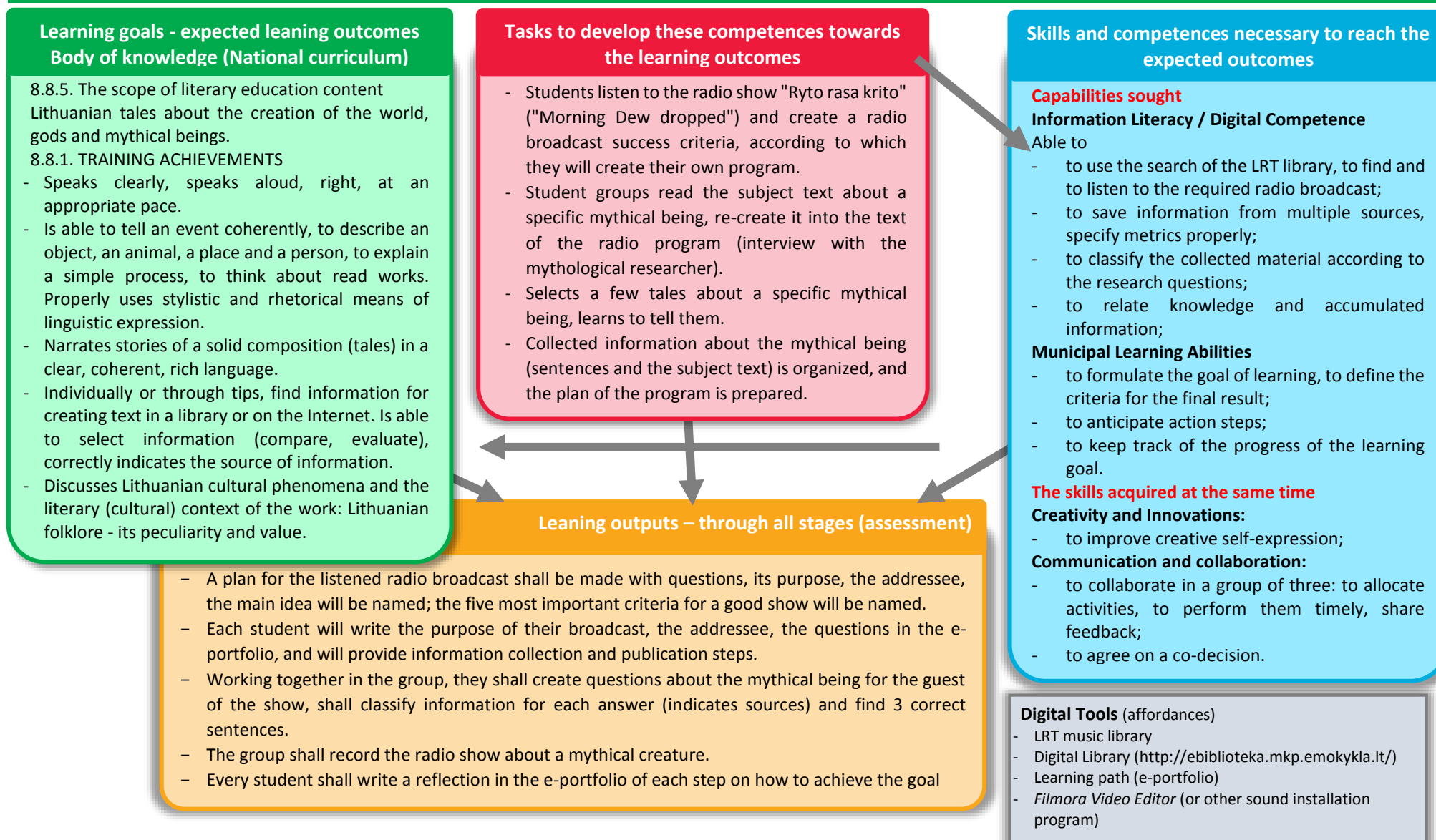


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*Lithuanian language: Tales***I. GENERAL DESCRIPTION**

Country	Lithuania
Author/Editor	Živilė Meškeliene
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

II. Learning Design Macro-level



Lithuanian language: Tales

III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
1. Finding information in the LRT music library	<ul style="list-style-type: none"> - Discussing of Lithuanian folklore - its peculiarity and value. - Answering to questions from the text in their own words or using quotes; compiling a text content plan using questions, short wording, and key words. 	Information Literacy / Digital Competence <ul style="list-style-type: none"> - To browse the LRT music library website and find the right show. 	<p>1. Task 1</p> <p>The teacher recalls that aetiological tales have been started to be studied during the literary lessons. Students are asked during what calendar time people have been thinking about and are now considering the creation of the world, remembering and still recalling the tales about this. The address of the LRT music library is specified: http://lrvab.lrt.lt/ and several features of the program: Title - "<i>Ryto rasa krito</i>" ("<i>Morning Dew dropped</i>"), Approximate show time - 2016 January, the key words of the show - <i>aetiological tales</i> or <i>creation of the world</i>.</p> <p>Students need to find a recording of the program.</p> <p>Task 1.2</p> <p>The teacher indicates the exact extracts of the show. Students listen to the recording of the show perform the text comprehension task (download a Word document or the teachers gives a printed piece of paper).</p>	<p>To monitor and encourage students to test the widest range of show search paths.</p> <p>To organize the first listening of the show extracts for the whole class. To supervise how tasks are performed when the students listen to specific extracts individually for the second time.</p>	<p>http://lrvab.lrt.lt/</p> <p>http://lrvab.lrt.lt/archive/19724/</p>	<p>Students work in groups of 3. Everyone is trying different ways of searching, considering in the group, choosing the best, the most convenient.</p> <p>For the first time, students are all listening to the recording of the show and individually performing part I listening tasks. For the second time, students listen to the specific parts of the show as needed and reply to questions in Part II.</p>	<p>To try some ways of the search in LRT music library. The specific show is found.</p> <p>The questions have been answered, the listening tasks have been performed. The task document has been uploaded to the e-portfolio.</p>	<p>Formal self-assessment of competencies according to the assessment criteria</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
2. Designation of good performance criteria		Self-government learning - to formulate the learning goal; - to choose the ways and means of work - to schedule time and work phases; - to identify the criteria for the final result	<p>Task 2.1 The teacher publishes a long-term assignment: <i>to create a radio show about the chosen mythical being (perk, devil, lament, deity, fairytale, witch).</i> The students identify the key words and concepts of the task, and they raise a number of questions for each of them, the tasks to be solved. The teacher writes the student's suggestions to the map of thoughts and at the same time demonstrates how to use the interactive planning tool.</p> <p>Task 2.2 Students are returned to the radio broadcast listening assignments. Based on the answers to the specified tasks, they distinguish the criteria for good performance. Provides the steps for creating the broadcast and portrays them on the map of thoughts.</p>	<p>Announces a task, helps students to make it more specific, visually captures students' suggestions, explains how the learning is planned using a map of thoughts.</p> <p>Listens to the good performance criteria offered by the students and after corrections makes a final agreement.</p>	<p>Planning tool: map of thoughts for class 5-6. http://www.ugdome.lt/kompetencijos-8/Irankiai/Planavimas/Planavimas_5_6%20kl/index.html</p> <p>Listening task sheets or Word Document.</p>	<p>Conversation. Learning tool demonstration.</p> <p>Group work: each student individually writes 3 criteria. The group discusses the suggestions of all members and selects the best, most important criteria of the 5th show. Groups' suggestions are linked / listed in a single list.</p>	<p>The task has been examined, an example of a map of thoughts has been prepared.</p> <p>A map of thoughts with learning steps, radio broadcast criteria has been prepared. This material has been uploaded to e-portfolio.</p>	Formal self-assessment of competencies according to the assessment criteria
3. Collection of information about the mythical being.	Searches information in the library or online for creating text independently or using tips. Are able to select	Information Literacy / Digital Competence (see section "Lithuanian language knowledge and skills")	<p>Task 3.1 Students agree on the created show: - <i>theme</i> (what kind of mythical beast is told about to the audience?); - <i>the purpose</i> (why it will be told?); - <i>the content</i> (what will be told?)</p> <p>Task 3.2</p>	Reminds the rules of the group discussion. Takes care that the discussions are cultured.	Sheet of group communication (patterns of sentences, questions).	Group work.	<p>Radio show theme, purpose, plan to write in e-portfolio.</p> <p>Interactive text comprehension</p>	

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
	information (compare, evaluate) correctly indicate the source of the information.	Communication and co-operation. (Task 3.1) - are actively listening; - criticize thoughts, suggestions, but not people; - talk and agree. (Task 3.3) - share the works; - ask for help, provide assistance; - everyone equally engage and participate.	http://lietuviu5-mkp.emokykla.lt reads a subject text about the devil and performs interactive tasks (<i>Gimtieji namai. Skaitau. 1 rinkinys</i>). Task 3.3 In the Digital Library <i>Literatūros kūriniai 5-8 klasei</i> (Literature Works for Class 5-8) students find a set of tales "Sužeistas vėjas" ("Injured Wind"). Working together in the group, they read tales about a specific mythical being and, according to selected criteria, classify the information given in the stories about the mythical being.	The teacher explains that in carrying out tasks 1 and 2, the students classify, divide information about the mythical being, and perform tasks 3 and 4 to learn the generalization of information, to associate it. The teacher demonstrates how to manage the information provided in the tale using www.padlet.com .	http://lietuviu5-mkp.emokykla.lt http://ebiblioteka.mkp.emokykla.lt/kuriniai/suzeistas_vejas/ https://padlet.com	Individual work - reading and comprehension tasks. Self-organized group work at home (group members share stories and fill the common wall ("squat") about the mythical being.	tasks have been performed. The information about the mythical being has been systematized. https://padlet.com The schema has been photographed and uploaded to the e-portfolio.	
4. Narrating of tales	- Narrates stories of a solid composition (tales) in a clear, coherent, rich language.	Communication and co-operation. - are actively listening; - identify the successes and failures of other people, advice.	Task 4.1 http://lietuviu5-mkp.emokykla.lt listens to the story "Apgauta ragana" ("The Deceived Witch") and performs interactive tasks (<i>Gimtieji namai. Klausau. 2 rinkinys</i>). Task 4.2 The students choose a tale about their group's mythical creature and learns to narrate their chosen tale. Every student using records the narrated tale.	The teacher draws the students' attention to the art of narrating a tale, the correct pronunciation, and the variety of intonations.	http://lietuviu5-mkp.emokykla.lt	Individual work in an interactive learning environment. Individual work. Group work: each member comments the narration of the tale according to the criteria in the assessment table. The last word is the said by	The interactive listening tasks have been performed. The narrated tale has been recorded and loaded to the e-portfolio.	

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
			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 of the radio show	<p>- Speaks clearly, speaks aloud, right, at an appropriate pace.</p> <p>- 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.</p>	<p>Information Literacy:</p> <p>- to relate knowledge and accumulated information;</p> <p>Creativity and Innovations:</p> <p>- to improve creative self-expression.</p> <p>Communication and co-operation</p> <p>- to participate equally and to become involved;</p> <p>- to share the works;</p> <p>- to inspire the group.</p>	<p>Task 5.1 The group is developing a plan for the show. Provides for the guests of the show, four questions to them, the introduction and the end of the show.</p> <p>Task 5.2 The radio show is recorded and mounted.</p> <p>Task 5.3 The radio shows are assessed:</p> <p>- comments from friends;</p> <p>- the group evaluates itself according to the scheduled show criteria;</p> <p>- teacher's assessment.</p>	<p>The teacher recalls that while planning the show it is important to review the purpose, the main idea, the statements recorded in the e-portfolio. To remember the paragraph summarizing the information.</p> <p>Encourages to assess the plan according to the criteria of the show.</p> <p>Evaluates the students' shows. Organizes the rating of the classroom friends.</p>	<p><i>Filmora Video Editor</i> (or other sound mounting application)</p> <p>https://padlet.com</p>	<p>Group work: role-playing (presenter, guests), the plan is being created.</p> <p>Group work</p>	<p>The radio broadcasts has been recorded and uploaded to a common wall ("squat") of the class shows.</p>	

IV. Material, resources and students' artefacts

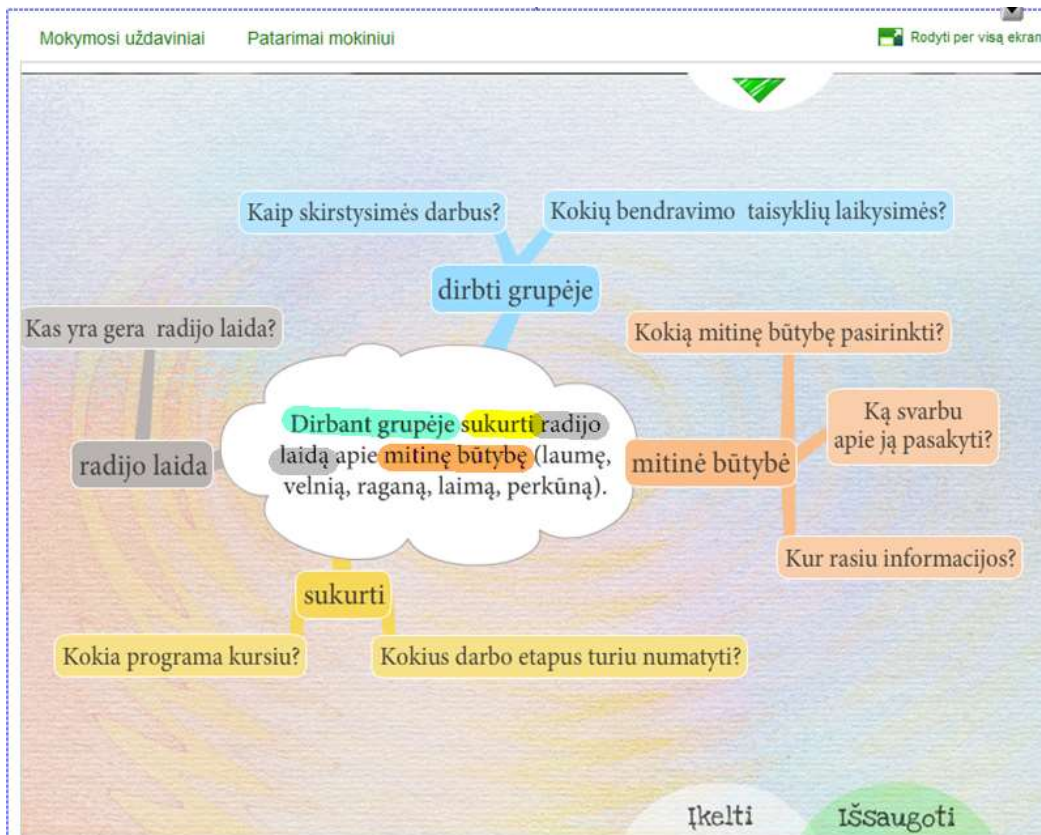
LISTENING SHEET

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

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

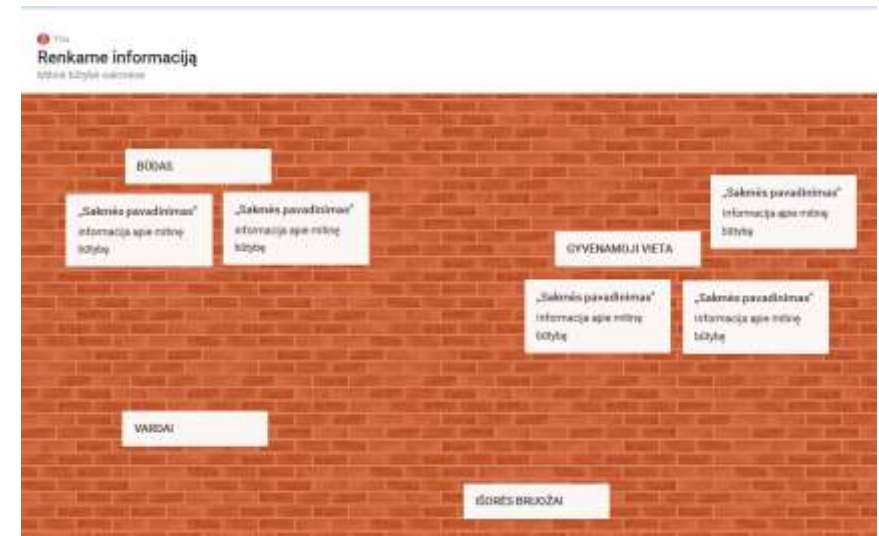
LEARNING PLANNING

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)



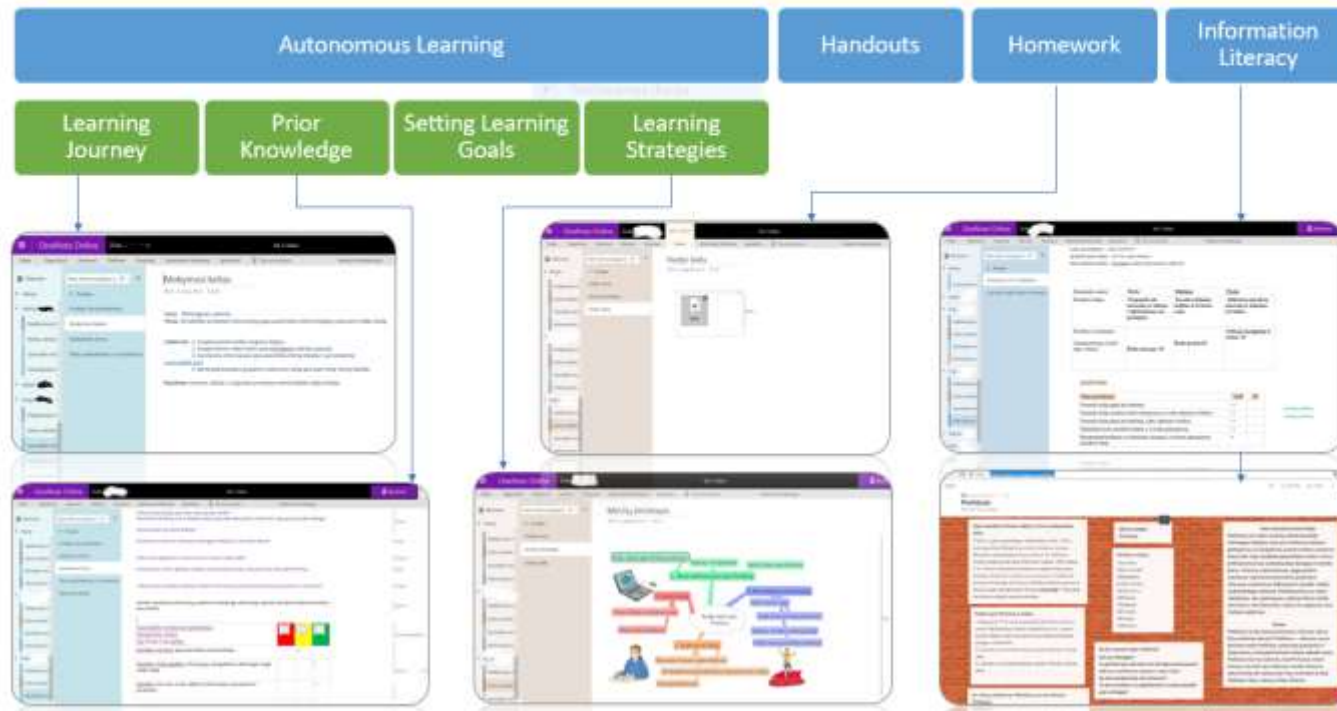
SELF-ASSESSMENT TABLES

Information Literacy / Digital Competence To find, analyse, systematise, evaluate, process and use ethically information from various sources: <i>Students use the site search.</i>		
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: <i>Students are able to find the information they need and organize and apply it.</i>		
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 https://padlet.com		
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 <i>Planning and managing activities for the implementation of a learning strategy.</i>		
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.

OneNote Student ePortfolio



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



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*Lithuanian language: Repetition of spelling the nasal vowels in the root***I. GENERAL DESCRIPTION**

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)

- 8¹.8.3. 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.
- 8¹.8.1. 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, self-assessment.
- Selected, tested and evaluated learning strategy.
- Follow-up on spelling of the nasal vowels and self-assessment 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.

III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
1. Office365 account management	- Identifies the structural and graphic features of the text and uses them to quickly find information and understand it better.	Information Literacy / Digital Competence - Sign in to the Office365 system	1.1. Sign in to your personal account and change the temporary password to a permanent one 1.2. Create a personal profile. Briefly introduce yourself.	Explain the criteria of a safe password and password reminder methods Help students to find profile boxes, explain how to fill them out if necessary. Provide timely feedback on writing in Lithuanian.	https://login.microsoftonline.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	- Understands the content and purpose of the texts being read.	Self-learning - Using the learning experience of other students, to find out how to improve own learning by properly planning work.	2.1. Read students and teachers conversations about learning, do text comprehension and analysis tasks. 2.2. Create a conversation between a student and a teacher about learning to spell the nasal vowels in the roots of words.	Initiate conversations in pairs. Lead the discussion of dialogues.	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	- Defines 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	Deliver the learning folder; ask questions about the structure of the e-portfolio, the	Microsoft OneNote application	Demonstration of the learning tool (e-portfolio Microsoft	The e-portfolio created by each student.

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
	- Knows how texts are created to express opinions, evaluate, and how - by communicating facts, informing.	OneNote learning folder Self-learning - Understand the essential skills of self-learning	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 <i>Content Library</i> .	nature of the texts, and the purpose. Encourage students' initiative to adjust the proposed learning path, to argue their ideas.	https://login.microsoftonline.com/	OneNote application). Discussion "Does the ability to write correctly depend on the ability to plan learning and track progress?"	Learning path for spelling the nasal vowels adjusted and approved by the classroom community.
4. Formulating personal literacy purposes and anticipating a learning strategy	- Adheres to the rules for spelling the nasal vowels in the root of words.	Self-learning - Identify specific learning needs based on background knowledge; - Define the objectives pursued and develop a strategy for achieving them.	4.1 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. 4.2 Formulate personal learning goals. 4.3 Create a learning strategy for spelling of the nasal vowels in the root of words.	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.	- Adheres to the rules for spelling the nasal vowels in the root of words.	Information Literacy: - Assess and collect learning sources and tools based on their	5.1 Execute the intended learning tasks. Evidences of learning activities uploaded to the e-portfolio.	The teacher monitors the records of the e-portfolio. He/she recommends students how to change learning	Microsoft OneNote application	Individual work	Educational evidence, assessment of learning activities

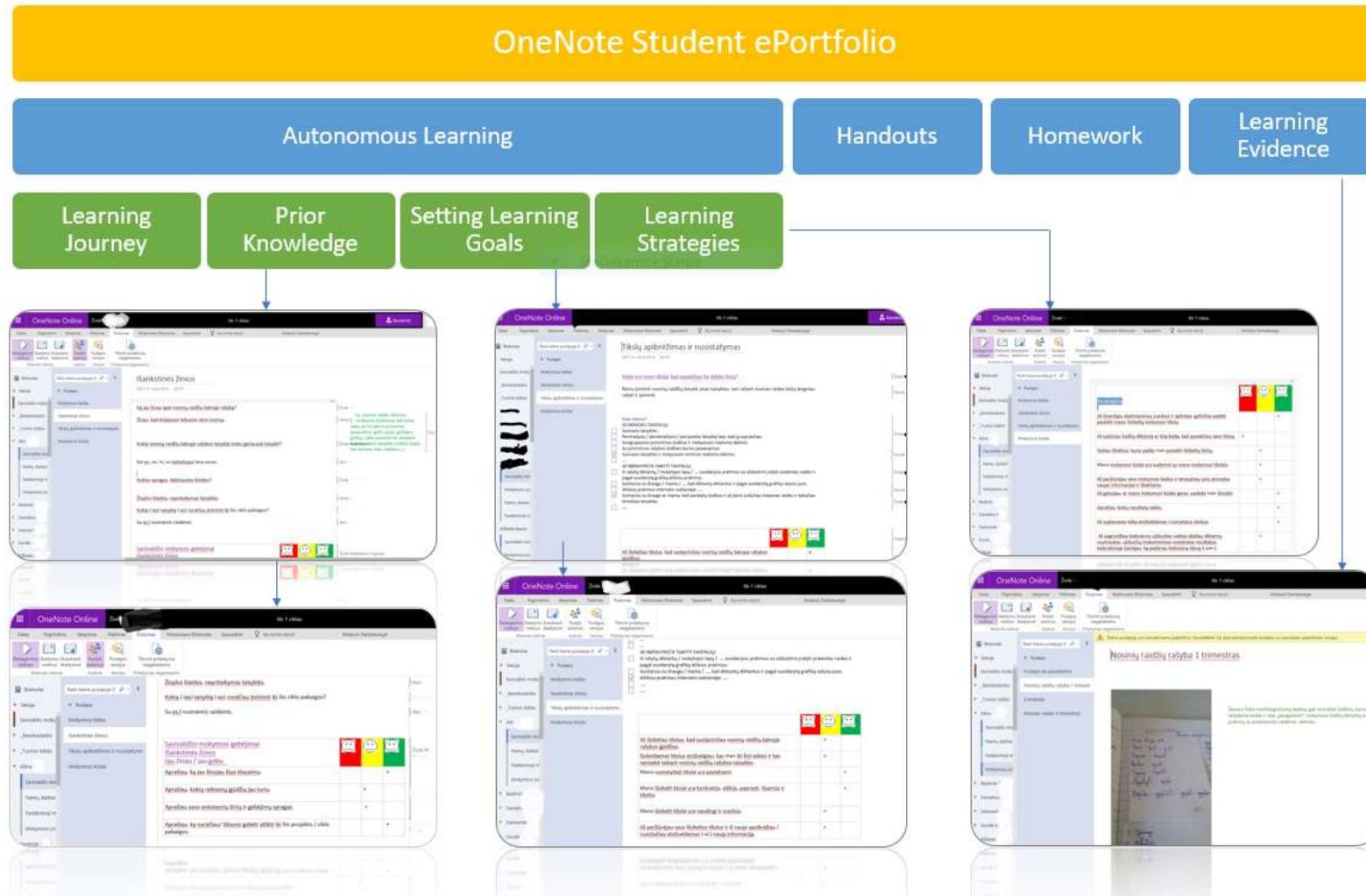
Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
		<p>suitability for specific tasks.</p> <p>Self-learning</p> <ul style="list-style-type: none"> - Plan and manage activities for implementation of the strategy; - Evaluate the process and results, present evidence of achievements. 	5.2 Evaluate independent learning. Always write into the e-portfolio what tasks are more successful, what learning paths are foreseen, why and how should they be changed?	activities, provides other feedback.	https://login.microsoftonline.com/		uploaded to the e-portfolio.
6. Word dictation. Self-assessment of the learning cycle.	- Adheres to the rules for spelling the nasal vowels in the root of words.	<p>Self-learning</p> <ul style="list-style-type: none"> - Assess the learning process and results. 	<p>6.1. Write and evaluate the dictation of words</p> <p>6.2. To substantiate the progress of literacy (compare the results of the 1st and 3rd trimester, the nature of spelling mistakes).</p> <p>6.3. Evaluate the learning cycle: how useful it was.</p>	Prepare the dictation of words and evaluation criteria.		<p>Word dictation</p> <p>Individual work - reflection.</p>	<p>Evaluated literacy progress</p> <p>The specific advantages and disadvantages of the learning cycle (student questionnaire) specified</p>

IV. Material, resources and students' artefacts

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

	1	2	3
Atšventinais skaitmenimis įrašius ir apibūtinus, galėčiau patvirtinti mano išmoktą mokymosi tikslą.	😊		
Atsakyčiau žodžių diktantą ar kitą būdą, kaip patikrinti savo tikslą.	😊		
Skaitęs išrašius, būtinai patvirtinti išmoktą tikslą.	😊		
Mano mokymosi būdai yra patvirtinti su mano mokymosi tikslais.	😊		
At patikrinęs savo mokymosi būdus ir atsižvelgęs į gautą informaciją ir išvadas.	😊		
At galėčiau, ar mano mokymosi būdai gerai padeda man išmokti.	😊		
Aprašius, kokių rezultatų siekiu.	😊		
At išplanavęs laiką atsižvelgęs į nustatytus dalykus.	😊		
At pagrindinius kiekvienos užduoties veiksmus (išrašius diktantą, rašant, skaitant, mokymosi išvadas ir išvadas).	😊		

Exemplar ePortfolio



History: World War I – Isonzo front



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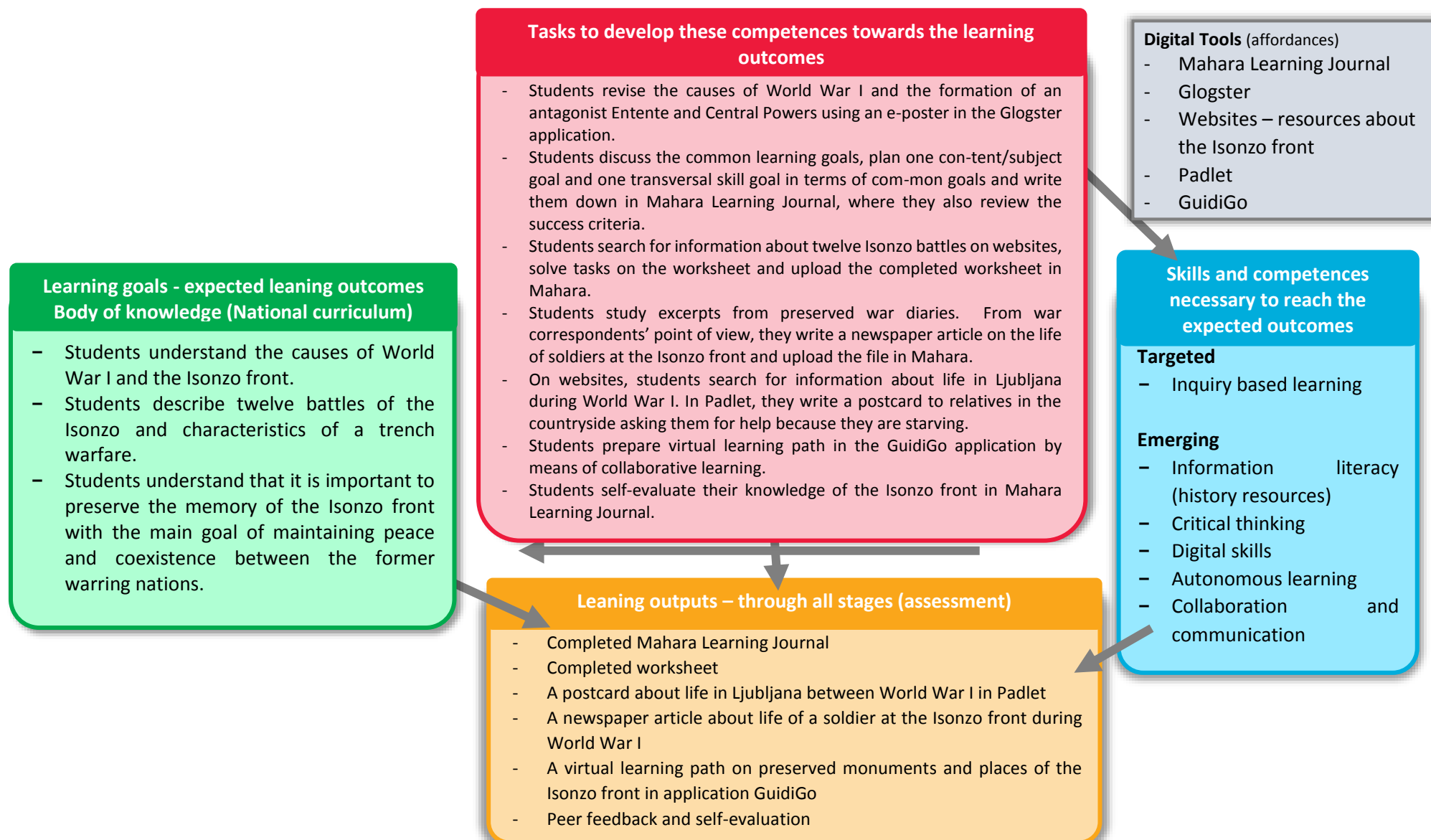


Kobarid Museum (Museum of World War I and Isonzo front in Kobarid)

*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

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
Activity 1: Identification of pre-knowledge by creating an e-poster and sharing it in Mahara Learning Journal	Causes of WWI, formation of Entente and Central Powers	<i>Autonomous learning</i> (determine the prior knowledge of the selected area) and <i>digital literacy</i> (create an e-poster, Mahara e-portfolio).	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		<i>Autonomous learning</i> (overview goals and success criteria, set personal goals of the subject – the Isonzo front).	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	Causes of the Isonzo front, twelve battles of the Isonzo (trench warfare, breakthrough the front at	<i>Information literacy</i> (analyse, evaluate, select, synthesize and ethically use information from historical sources	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		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
	Kobarid), in different everyday life of media; process ordinary soldiers information and at the Isonzo front, everyday knowledge); life in Ljubljana <i>autonomous learning</i> (evaluate during the war process and (citizens, war results, provide refugees, war evidence of their prisoners). achievement).		<p>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.</p> <p>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 Il Popolo d'Italia).</p> <p>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.</p> <p>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</p>		<p>Websites about the Isonzo front</p> <p>War diaries of ordinary soldiers at the Isonzo front</p> <p>Mahara Learning Journal</p>		

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
			postcards according to peer feedback. Students upload fulfilled worksheets, newspaper articles and link to the postcards in Padlet in Mahara Learning Journal.				
Activity 4: Creation of a virtual learning path of the Isonzo front		<i>Information literacy</i> (integrate new knowledge and apply it to new situations); <i>digital literacy</i> (a virtual learning path in application GuidiGo); <i>autonomous learning</i> (peer evaluation).	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)		<i>Autonomous learning</i> (self-evaluate and reflect process of learning and results (evidence)).	Task 5: Students individually evaluate their learning and evidence of learning according to success criteria.	Supports, helps and monitors students. Gives students feedback according to their evidence of learning.	Traffic Lights Mahara Learning Journal	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 Slovenec) or the then Italian 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
1. 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.rtvsllo.si/1sv>, 24. 9. 2017.
- <http://www.100letprve.si/>, 24. 9. 2017.
- <https://www.kobariski-muzej.si/>, 24. 9. 2017.
- <http://www.potmiru.si/>, 24. 9. 2017.
- http://www.muzej-nz.si/?page_id=962, 24. 9. 2017.
- <https://www.kamra.si/>, 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



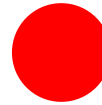
Students are divided into five groups of four students. Each group creates one virtual attraction of a virtual learning path in GuidiGo application. Each virtual attraction consists of:




- *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).

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

Criteria 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.			
Schoolmate's suggestions to improve virtual attractions:			

Appendix to activity 5: Self-evaluation with Traffic Lights

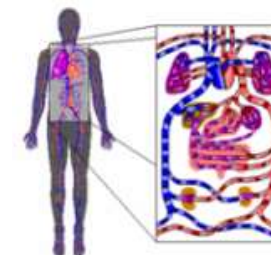
Success criteria to self-evaluate knowledge of the topic:				Arguments, comments, notes:
1. I can explain causes for the beginning of the Isonzo front (imperialistic politics of Great Powers (especially so-called Italian irredentism)).				
2. I can evaluate main points of London pact and their meaning 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 Il 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:				
Teacher's feedback:				

Success criteria to self-evaluate information literacy skills (working with historical resources from different 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:				
Teacher's feedback:				

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



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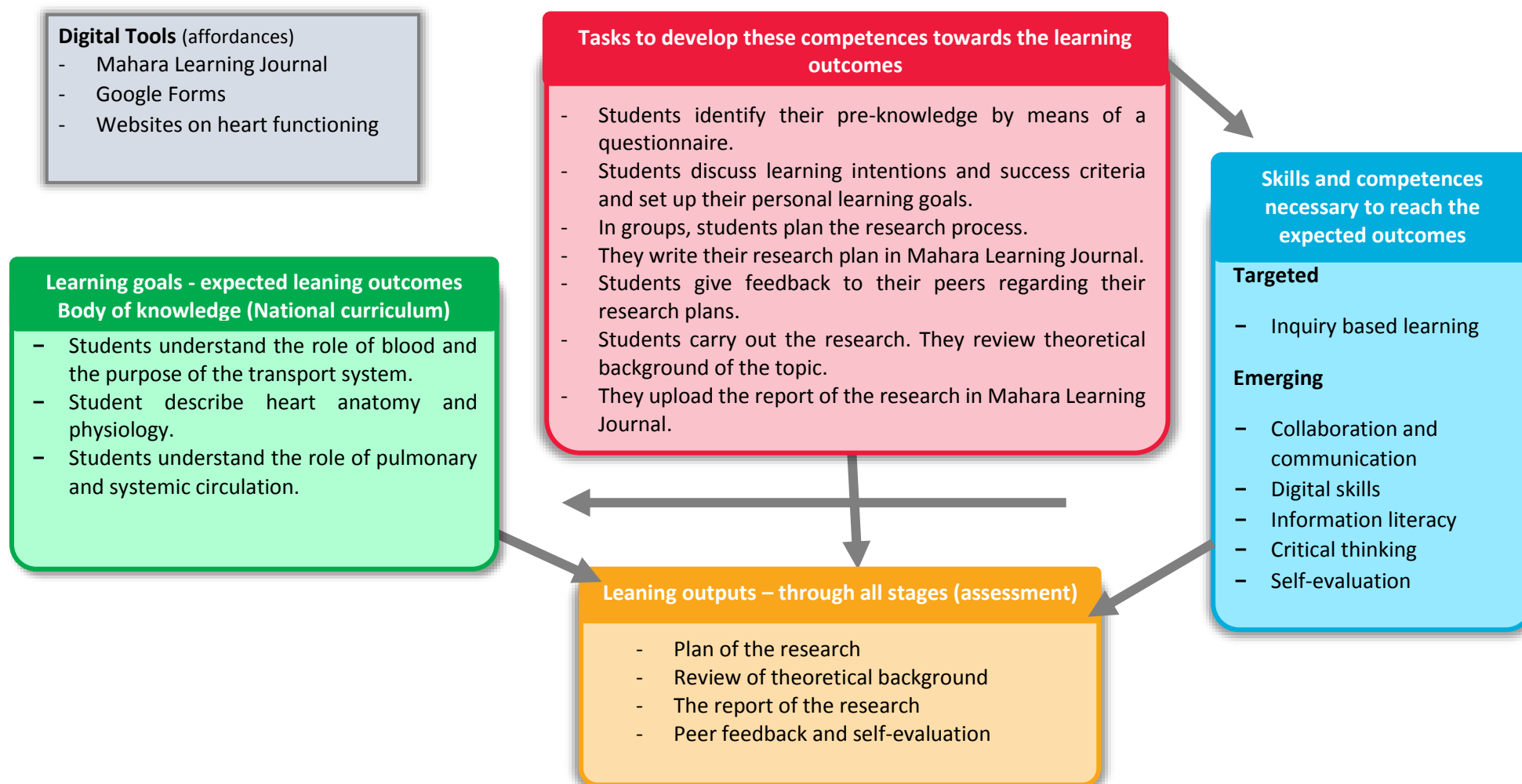


Science: Circulatory system – Transport systems – The functioning of the heart

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



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
Activity 1: Solve the test Activity 2i: Fill in Mahara Learning Journal	Completion of the test.	Determination of prior knowledge on the selected skill.	Task 1: Students complete the test on circulatory system (a questionnaire in Google Forms). Task 2.1: Students check their answers and write a self-reflected report on their prior knowledge in Mahara Learning Journal. Task 2.2: Students fill in their Mahara Learning Journal – their prior knowledge on the selected transversal skill (inquiry based learning, cooperation, critical thinking and informatics literacy).	Gives instructions and 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 style="list-style-type: none"> Setting the subject and personal goals. Co-creation of success criteria. 	Task 3.1: Students work in groups and discuss subject goals. Students add personal goals and write them down in Mahara Learning Journal. Students write goals regarding the development of one transversal skill. Task 3.2: Students check the success criteria and improve them according to peers' proposals.	Divides students into groups and helps them (if needed).	Mahara Learning Journal	Group work Individual work	Individual students' goals and success criteria in Mahara Learning Journal.
Activity 4: Group planning of the research	Form 3 questions for each topic (blood, heart, pulmonary circulation, systemic circulation).	Define the strategy to achieve the goal. Plan the research and choose your role in the research. Review theoretical	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 goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
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.	Monitors and supports students' activity.	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 2iiii: Self-evaluation	Publish the research report in Mahara.	Share the process of learning and self-evaluation of the research process.	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.	Teacher gives feedback on the report and self-evaluation. Teacher explains possible misconception and misinterpretation of the results.	Mahara Learning Journal (Files) Mahara Learning Journal (Feedback)	Individual work	Report. Self-evaluation. Teacher's feedback.

IV. Material, resources and students' artefacts

Assessment of pre-knowledge – a questionnaire

Read the following statements and mark if you agree or disagree with them.

1. Blood is a fluid that is not made out of cells.

- ☐ I agree
- ☐ I disagree

2. The heart is on the right side of the chest.

- ☐ I agree
- ☐ I disagree

3. The heart is built from muscle tissue.

- ☐ I agree
- ☐ I disagree

4. Blood brings food and oxygen to cells and takes up carbon dioxide.

- ☐ I agree
- ☐ I disagree

5. The heartbeat slows down during exercise.

- ☐ I agree

☐ I disagree

6. All animals have a heart.

☐ I agree

☐ I disagree

7. Blood gathers in the heart.

☐ I agree

☐ I disagree

8. All blood in the pulmonary circulation is oxygenated.

☐ I agree

☐ I disagree

9. We observe the influence of high temperature on human sweating.

Which hypothesis is correct?

☐ When it is hot, I sweat.

☐ Exercise increases sweating.

☐ Higher temperature increases sweating.

10. When I work in groups, I take the leading role.

☐ I agree

☐ I disagree

11. In groups, work is equally divided among all participants.

☐ I agree

☐ I disagree

12. While reviewing theoretical background in different sources, quotation is not necessary, if you use your own words while describing what you have read.

☐ I agree

☐ I disagree

13. The results of the research confirm my assumptions.

☐ I agree

☐ I disagree

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:

- 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

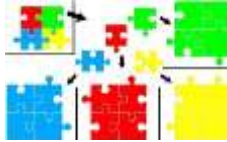
1. Think about the above listed goals and form success criteria:



2. Review the success criteria for the chosen skill and select those that 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 chooses 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 DESCRIPTION**

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	<p>In the introductory activity, students individually think about the Olympic rings, the proper use of mathematical terminology and their prior knowledge of the patterns.</p> <p>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.</p> <p>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.</p> <p>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.</p> <p>Groups discuss different research processes and approaches, advantages and disadvantages, and compare their outcomes.</p> <p>At the end of the research, students do self-reflection and self-evaluation in accordance with their learning goals and success criteria.</p> <p>During the lessons on patterns, they fill in Mahara Learning Journal (My Learning Cycle).</p>
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 learning 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.
 - o 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?
 - o 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)

Learning 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	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
<p>Activity 1:</p> <p>Introduction of the task. How can we create patterns with circles?</p> <p>Activity 2:</p> <p>Fill in Mahara Learning Journal – My Learning Cycle, section Prior knowledge.</p>	<ul style="list-style-type: none"> - raising awareness of the proper use of mathematical terminology - raising awareness of students' knowledge on solving tasks with patterns - individual creation of a pattern - solving a mathematical task 	<ul style="list-style-type: none"> - form a research question - plan a research process (autonomous learning skills) - use digital technology to support the tasks (digital skills) 	<p>Task 1.1:</p> <p>Students read a mathematical task and think about the proper use of mathematical terminology.</p> <p>Task 2.1:</p> <p>Students go to Mahara Learning Journal and write down their findings in My Learning Cycle, section Prior knowledge.</p> <p>Task 1.3:</p> <p>Students independently create a pattern, form a research question, plan a research and start researching.</p> <p>Task 2.2:</p> <p>Students make a photo of the pattern created and upload it in Mahara Learning Journal – My Learning Cycle, section Prior knowledge.</p>	<p>Prepares worksheets for students with a mathematical task.</p> <p>Prepares instructions and other activities in Mahara Learning Journal to support students' learning.</p> <p>Gives feedback to students about their research plan (task 1.3).</p>	<p>Circles made of rubber, metal, plastic ...</p> <p>Paper/worksheets</p> <p>Mahara Learning Journal – My Learning Cycle, section Prior knowledge</p>	<p>Individual work</p>	<p>Students:</p> <ul style="list-style-type: none"> - write down their findings, - create patterns, - plan a research. <p>Students' Mahara Learning Journal – My learning Cycle, section Prior knowledge (findings and a photo of the pattern created).</p>
<p>Activity 3:</p> <p>How can we gain knowledge on patterns by setting learning goals and forming success criteria?</p> <p>Activity 4:</p>	<ul style="list-style-type: none"> - set learning goals in relation to patterns - comply their own objectives with the teacher's objectives 	<ul style="list-style-type: none"> - form personal learning goals - form success criteria for cooperation skills - use digital technology to support the tasks (digital skills) 	<p>Task 3.1:</p> <p>Students individually form:</p> <ul style="list-style-type: none"> - personal learning goals, - learning goals in relation to patterns, - learning goals for cooperation/collaboration skills. <p>Task 3.2:</p> <p>Students think how to achieve the goals and individually form success criteria.</p>	<p>Prepares a table template for learning goals and success criteria.</p> <p>Forms pairs/small groups for discussion on students' learning</p>	<p>Table template 1 (see <i>lesson appendix</i>)</p> <p>Mahara Learning Journal – My Learning Cycle, section Setting goals</p>	<p>Individual work</p> <p>Group discussion</p>	<p>Written personal goals</p> <p>Written learning goals in relation to patterns</p> <p>Written learning goals for cooperation skills</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
Fill in Mahara Learning Journal – My Learning Cycle, section Setting goals.			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.	goals and success criteria. Monitors and supports students' activity. Gives feedback.			Students' individual fulfilment of tasks in Mahara Learning Journal – My Learning Cycle, section Setting goals
Activity 5: Planning and presentation of the research. Activity 6: Fill in Mahara Learning Journal, My Learning Cycle,	- improve the research plan - present the research to schoolmates - compare and evaluate different research steps/plans - prepare presentation of the research	- plan the learning process (autonomous learning skills) - work with others on a common task (collaboration and communication skills) - use digital technology	Task 5.1: 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 present:	Connects students with similar patterns (task 1.3). Supports students during group activities.	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	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
section Strategies and Evidence.	- discussion in small groups/pairs on advantages and disadvantages of various approaches to the research	support the tasks (digital skills)	<ul style="list-style-type: none"> - their research questions, - strategies of creating patterns, - how to solve the mathematical task. <p>Task 5.3: Students compare and evaluate different approaches/outcomes.</p> <p>Task 5.4: Together (in pairs or groups) they choose:</p> <ul style="list-style-type: none"> - a research question they will be able to solve, - strategies, - if it is necessary, thorough solutions, - the type of presentation. <p>Task 5.5: Each group prepares a presentation.</p> <p>Task 6.2: Students go to Mahara:</p> <ol style="list-style-type: none"> 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		Use digital technology to support the tasks (digital skills)	<p>Task 7.1: Two groups of students present their research work.</p> <p>Task 7.2: In groups, students discuss advantages and disadvantages of the research approaches presented and compare them with their own ones.</p>	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	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
				Prepares a template for a table of correlation.	Learning Cycle, 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)	Task 8.1: 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.	Mahara Learning Journal – discussion forum Mahara Learning Journal – My Learning Cycle, section Feedback	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		- plan, monitor, share the learning process (autonomous learning skills) - use digital technology to support the tasks (digital skills)	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



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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

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

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

III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
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 style="list-style-type: none"> – Collaborative learning – Creativity – Learning to learn – ICT 	<p>In groups explore the website</p> <p>Identify the main elements in Romanesque style: architecture, sculpture, and painting.</p> <p>Share opinions through Padlet</p>	<p>Provide students the website http://centros.edu.xunta.es/cpiocruce/materiales/2arteenglish/index.html</p> <p>Divide the class in groups</p> <p>Ask students to produce a definition of the Romanesque: architecture, sculpture, and painting.</p> <p>Provide students a Rubric for self-assessment</p>	<p>Personal computer</p> <p>Padlet</p>	<p>-Teacher uses learner' centred approaches</p> <p>-Learning by doing</p> <p>-Students learn through exploring information and feedback that comes from activity results</p>	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	Identify the main Romanesque buildings	Communicate the others his/her knowledge about Romanesque	<p>Search and collect main Romanesque buildings</p> <p>In groups describe the building to visitors.</p> <p>Record the presentation of the visit by each member of the group and save it as podcast</p>	<p>Ask students to choose one Romanesque building.</p> <p>Ask students to prepare a role-play where students have to act as guide in a visit to a Romanesque building.</p> <p>Optional: suggest students to record the visit.</p>	<p>Personal computer</p> <p>Padlet</p> <p>IPad</p>	Learning by doing.	A number of digital recordings describing different Romanesque buildings

<p>Search for information and establish the relationship between Romanesque and the “Road to Santiago”</p> <p>In groups create a website to formally present your findings</p>	<p>To establish links between the “Road to Santiago” and Romanesque</p>	<ul style="list-style-type: none"> - Team work - Creativity - ICT 	<p>In groups identify the links between Romanesque and “Road to Santiago”</p> <p>Produce a website about the Romanesque and the “Road to Santiago”</p>	<p>Ask students to identify the links among “Road to Santiago” and Romanesque</p> <p>Ask students to produce a website about the “Road to Santiago and Romanesque”</p> <p>Support students activities</p>	<p>Personal computer</p> <p>WordPress</p>	<p>Learner’ centred approaches</p> <p>Learning by doing</p> <p>Students collaborate on end-of –project presentations/ products to formally present their findings</p>	<p>Different websites created by students to formally present their findings.</p>
<p>Write the on the white board the criteria to assess the websites</p> <p>One group assess other group work including comments</p>	<p>Students reflect on the products presented to formally communicate their findings</p>	<ul style="list-style-type: none"> - Creativity - ICT - Teamwork - Communication 	<p>Get an agreement for the whole class to assess the Website</p> <p>Put them all together in the whiteboard</p> <p>Produce a document about other group work</p> <p>Students fill in the Rubric.</p>	<p>Collaborate with the groups and with the class to select the criteria for assessment</p> <p>Provide feedback to students: about group assessment and the rubric</p>	<p>Personal computer</p> <p>Padlet</p> <p>Whiteboard</p>	<p>Learning from feedback and implementing critical thinking</p>	<p>Documents assessing other group works produced by students groups</p> <p>Assessment evidences</p>

English as a Foreign Language: Family names



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*English as a Foreign Language: Family names***I. GENERAL DESCRIPTION**

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 self-confidence in one's ability to learn and use a foreign language.

Tasks to develop these competences towards the learning outcomes

- 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 learn.
- 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

III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
<ul style="list-style-type: none"> – A little talk about family names students learn the family names using Saxon genitive – Students in groups make a presentation about the Simpsons using the Saxon genitive <p>A Student asks and the other answers</p>	<ul style="list-style-type: none"> – Get knowledge about the Saxon genitive – Get to know vocabulary: family 	<ul style="list-style-type: none"> – Creativity – Learning to learn – ICT – Communication 	<ul style="list-style-type: none"> – Students prepare a Power Point presentation with family names and Saxon Genitive. – A student leads the activity and other students answer the questions 	<ul style="list-style-type: none"> – The teacher conducts the learning process. – The teacher makes possible students learn by doing – The teacher streamlines oral practice <p>Assess the regularity and consistency of daily work</p>	<ul style="list-style-type: none"> – Personal computer – Power point/Prezi 	<ul style="list-style-type: none"> – Learners centred approaches – Active learning – Teamwork 	<ul style="list-style-type: none"> – Oral activities using the white board <p>Presentations to teach Saxon genitive and vocabulary related to family.</p>
<p>The tale “The enormous turnip” Students collaboratively tell the tale with the support of the whiteboard</p>	<p>Students should be able to understand the main idea of a tale and be able to perform it together with other group members</p>	<ul style="list-style-type: none"> – Communication 	<ul style="list-style-type: none"> – Read the tale – Perform the tale with the group members <p>A member of the group records the performance with the iPad</p>	<ul style="list-style-type: none"> – The teacher promotes students' active role in working the tale. <p>The teacher presents didactic proposal and supports student with oral language</p>	<p>iPad</p>	<p>Proactive learning</p>	<ul style="list-style-type: none"> – Memory and oral practical activities. <p>Videos with tale performances</p>
<ul style="list-style-type: none"> – Each student chooses a Royal family member and writes about him or her – Students with their personal computer write about one of the royal family members, 	<p>Students should know about:</p> <ul style="list-style-type: none"> – The British Royal Family and the vocabulary round it – Students should be able 	<ul style="list-style-type: none"> – Communication – Creativity – The error as element of the learning process 	<p>Students write descriptions of a member of the B. Royal Family (they choose a paper to see the person)</p> <p>Contest:</p> <p>Students have to identify member of</p>	<ul style="list-style-type: none"> – Teacher provides the names of Royal Family members for students choose. – The teacher moderates the contest and makes students reflect on groups work 	<p>e-portfolio</p>	<p>Learning by doing</p> <p>learning feedback from</p>	<p>A contest to practice foreign languages</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)
	Subject area	Transversal skills					
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 <ul style="list-style-type: none"> 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 	Students should know how to <ul style="list-style-type: none"> produce a text and transform it in a video using Puppetpals Use family vocabulary 	- ICT - Creativity	<ul style="list-style-type: none"> Students have to choose a personality/celebrity to write a dialogue. and produce a video Students practice the dialogue. Students create a scenario and record the conversation between two personalities. Students record and save the video 	<ul style="list-style-type: none"> Ask students to write a dialogue with a famous person or celebrity, using family names. Provide students with the assessment criteria and discuss them with students. Review the students' tests and oral practice. Support students' activities. Review the final product 	- iPad Puppetpals	<ul style="list-style-type: none"> Proactive learning Use all knowledge to produce a final product 	Videos made with puppetpals about famous people and family
<ul style="list-style-type: none"> Students in pairs present their videos A group of four students assess them. One student writes the comments and reads it for the class E-Portfolio development. Individual pages 	- Present their works in foreign language	implement critical thinking and reflection on own learning	<ul style="list-style-type: none"> Agreement on assessment criteria and write them in the blackboard Each pair using Apple TV presents their video <p>Other pair comments the video and assesses it.</p>	<ul style="list-style-type: none"> The teacher proposes the videos assessment Collaborates in fix assessment criteria 	- iPads Apple TV	<ul style="list-style-type: none"> Learning from feed-back Reflection on own learning process 	<ul style="list-style-type: none"> Assessment criteria <p>Comments on different videos</p>

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



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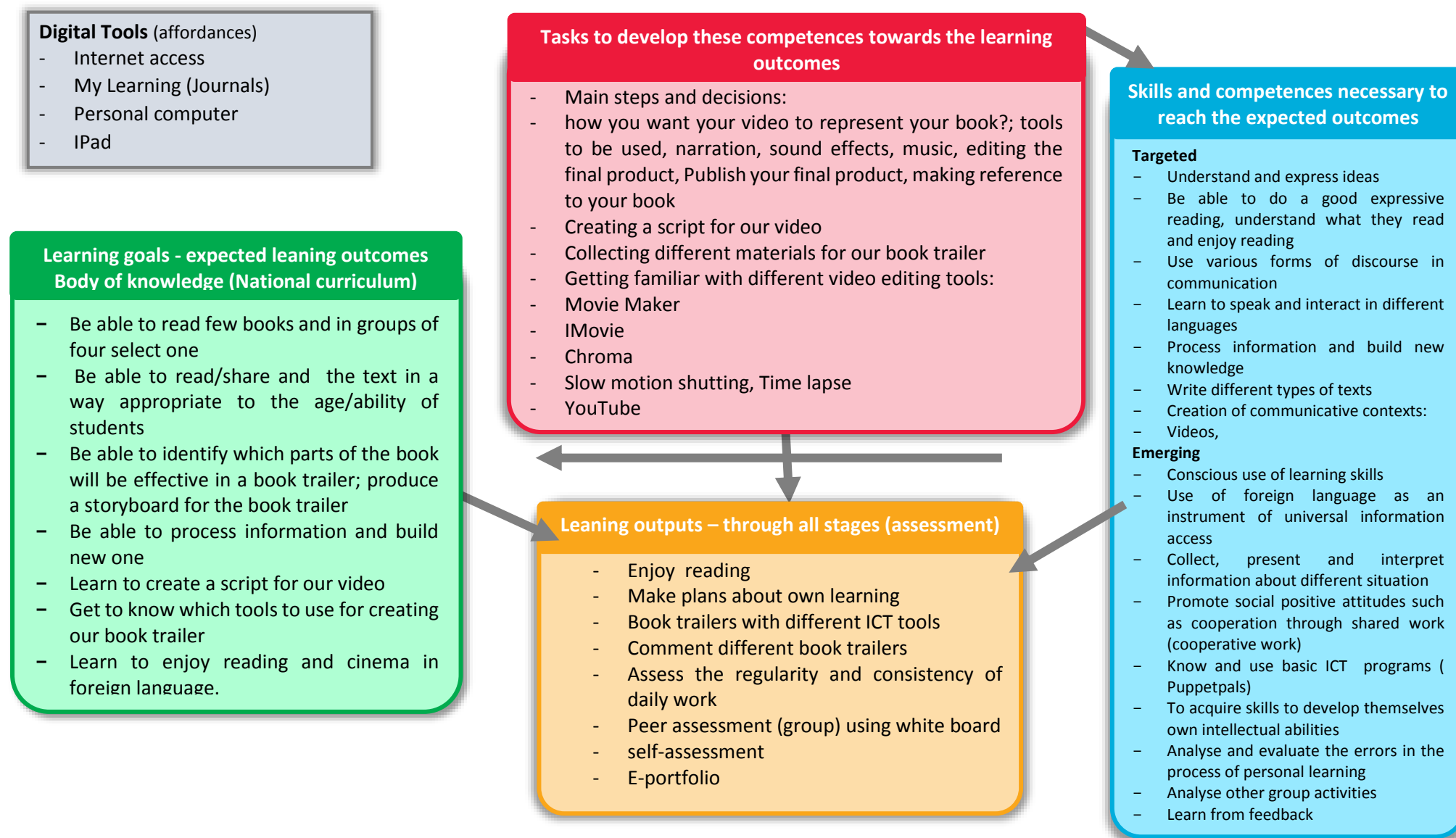


English/Spanish Galician Language: Book trailer- Video story telling

I. GENERAL DESCRIPTION

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: https://mahara.ats2020.eu/view/view.php?id=13722 Learning Design: https://resources.ats2020.eu/resource-details/LEDE/Video_story_telling

II. Learning Design Macro-level



III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
Activity 1: Critical reading of a Book	Get knowledge about Spanish literature Develop in students the pleasure of enjoying reading	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 style="list-style-type: none"> Enjoy reading Make plans about own learning 	<ul style="list-style-type: none"> Monitoring sheets; Inter-appreciation of the works and interpretation
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	<ul style="list-style-type: none"> Collect, present and interpret information about different situations Promote social positive attitudes such as cooperation through shared work (cooperative work) Creativity 	children themselves choose elements of the book that impressed them and which can be integrated into the book trailer scenario They decide which contents they are going to include in the book trailer	The teacher guides students	Personal computers Books	Engagement, exploration, explanation, elaboration and assessment	The script and the scenario for the book trailer	Rubric
3The shooting of a film Using /puppet pals to do short animations	Learn to use multimedia to tell stories and to transfer a book into a video Video, Puppet pals	<ul style="list-style-type: none"> ICT literacy Digital Rights and Digital literacy 	Students shoot their videos or make small animations using Papperpals	teacher guides students	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 Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
4. Editing videos...	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. Presenting their book trailers	enjoying reading Communicate using audio-visual resources	Communication skills	Students in groups present their videos. Other group assess them according to agreed criteria	observe	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

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 drawings and using pictures to make their videos. To produce videos students used Moovle Maker and Imovie.

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 electronic 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

Windmills



A Sancho



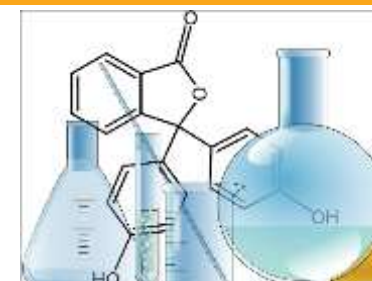
Students' works: <https://www.youtube.com/watch?v=d3FPE5CDUnE&feature=youtu.be>

Material/resources for Learning Design				
	Description	Type	File name / URL	Language
Material to support tasks and activities (Description of tasks/activities, rubrics, worksheets, etc.)	Steps to create a book trailer	pdf	http://www.edu.xunta.gal/centros/cpicruce/system/files/Keyelements.pdf	English
	Rubric	pdf	http://www.edu.xunta.gal/centros/cpicruce/system/files/Rubric.pdf	English
Students' artefacts (Products, ePortfolios, etc.)	1.	Video	https://www.youtube.com/watch?v=Oml4YIB1aOY	English
	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

Chemistry and Physics: Chemical Bonding



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*Chemistry and Physics: Chemical Bonding***I. GENERAL DESCRIPTION**

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: https://mahara.ats2020.eu/view/view.php?id=14615 Learning Design: https://resources.ats2020.eu/resource-details/LEDE/chemical_bonding

II. Learning Design Macro-level

Digital Tools (affordances)

- Internet access
- My Learning (Journals)

Learning goals - expected learning 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).

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.

Learning 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.

III. Learning Design Micro-level

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
<p>Activity 1</p> <p>A.1.1. Brainstorming: Why do atoms combine? introduction: Present the learning cycle (UD): objectives, activities, instruments and evaluation procedures.</p> <p>▪ A.1. 3. Video about the chemical link https://www.youtube.com/watch?v=OTgpN62ou24 (2.5min).</p> <p>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).</p> <p>▪ A.1.4. Complete the link questionnaire ▪ A.1.5. Introduction to the formulation of binary salts: https://www.youtube.com/watch?v=URc75hoKGLY (11 min)</p> <p>▪ KAHOOT IT! ▪ A.1.5. Reflection on learning. Video-song about the chemical link https://www.youtube.com/watch?v=mpJSiak37o</p>	<p>Theme:</p> <ul style="list-style-type: none"> - Recognition in a collective and individual way of the basic characteristics of a dissolution starting from the initial intuitive practice. - Initial knowledge of the basic functions of the Mahara platform, including the self-assessment tools 	<ul style="list-style-type: none"> - The key competences will be developed in the process of putting the UD into practice - The transversal skills <ol style="list-style-type: none"> 1. Informational literacy (AI) 2. Collaboration / Communication (C) 3. Creativity / Innovation (I) 4. Digital literacy (AD) 5. Self learning (AU) - Key competences <ol style="list-style-type: none"> 1. Competence in linguistic communication (CCL). 2. Mathematical competence and basic skills in science and technology (CMCCT). 	<ul style="list-style-type: none"> - P.1.1 The active teacher the knowledge previous class group, through the activity of "Brainstorming" - P.1. 2 Wanted clearly convey the objectives of work, proposed tasks, evidences and rubrics of evaluation. - P.1. 3 The possibility of participation of students in the development of evaluation rubrics. - P.1.4 The activities carried out done by the students. - P.1.5 Observed and participate in the course of the tasks, evaluating processes, results and diaries learning and fostering peer assessment during the process - AL.1.1 The students participate actively in the brainstorming, 	Guide students through the learning process	<p>Chalk.</p> <p>Cannon, digital board and teacher's computer.</p> <p>Computers with internet connection</p> <p>Chemistry laboratory.</p>	<p>Interaction in the classroom: group-class.</p> <p>Work in groups of 4</p> <p>Work in pairs.</p> <p>Individual work.</p>	<p>Reflection in a collective and individual way on the different forms of liaison of the atoms to form elements and compounds</p>	<p>Observation of the process by the teacher / student</p> <p>Active participation of the students during the interaction.</p> <p>Creation and consensus of different-assessment tools (rubrics).</p> <p>Clarification on the use of the self-assessment tool</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
		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: https://www.youtube.com/watch?v=LkAykOv1foc (6 min.) ▪ Complete the activity questionnaire. ▪ A.2.2 Lewis structures ▪ Video on Lewis structures: https://www.youtube.com/watch?v=Sk7W2VgbhOg (4 min)	- Theme - Specific recognition in a collective and individual way of the basic characteristics of a mixture / dissolution / pure substance.	- Cross-disciplinary competences - Learn to learn. - Social and civic competence. Respect and interest in the opinions of others.	- P.2.1 The teacher presents the activity and manages tasks and times. - P.2.2 The teacher supports the development of the group activity	The teacher supports students	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 goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
<ul style="list-style-type: none"> Complete questionnaire to send to google classroom A.2.3 General review questionnaire A.2.3. Chemical formulation II (covalent binary compounds) KAHOOT IT! 	<p>Verification refutation of the initial intuitions and settlement of knowledge the classification of the subject.</p> <p>Deepening in the contrasted and shared knowledge of the classification of the subject.</p> <p>Continuation in the familiarization with the Mahara platform</p>	<ul style="list-style-type: none"> Information literacy. Collaboration / Communication. Digital literacy. 	<p>pivoting as necessary between the groups.</p> <ul style="list-style-type: none"> 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. 		<p>internet connection .</p> <p>Chemistry laboratory.</p>			<p>of the students during the interaction.</p> <p>Learning diary ("My learning")</p>
<p>Activity 3:</p> <p>A.3.1 Physical properties</p> <ul style="list-style-type: none"> Properties of ionic substances: video https://www.youtube.com/watch?v=TxHi5FtMYKk (4 min) Comment / debate about the video Properties of covalent substances: video 1 (simple molecules) https://www.youtube.com/watch?v=OdijwnBRNp0 (2 min) 	<p>Theme:</p> <p>Specific recognition in a collective and individual way of the basic characteristics of mixtures / solutions / pure substances.</p> <p>Deepening in the contrasted and shared knowledge of the procedures to separate the components of a mixture / dissolution.</p>	<ul style="list-style-type: none"> Information literacy Collaboration / Communication Digital literacy. Autonomy Creativity. 	<ul style="list-style-type: none"> P.3.1 The teacher presents the activity and manages tasks and times. P.3.2 The teacher supports the development of the group activity pivoting as necessary between the groups. P.3.3 In his journey, the teacher makes observations about 	Support students in the learning process	<p>Wax and chalk.</p> <p>Cannon, digital board and teacher's computer.</p> <p>Computers with internet connection .</p>	<p>Interaction in the classroom: group-class.</p> <p>Work in pairs.</p> <p>Individual work</p>	<p>Relate the physical properties of substances</p>	<p>Observation of the process by the teacher / student.</p> <p>Active participation of the students during the interaction.</p>

Activity title	Learning goals – Learning Outcomes		Tasks (teacher/students)	Teacher's role	Tools	Methodology – Class Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
Video 2 (giant structures) https://www.youtube.com/watch?v=FKTsQOpLwdE (3 min) ▪Comment / debate about the videos ▪Properties of metallic substances: video https://www.youtube.com/watch?v=wNQqYa8b9XQ (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	- Transversal competencies: - Alphabetization informational. - Collaboration / Communication. - Alphabetization digital. - Cooperation. - Autonomy. - Creativity.	- P.4.1 The teacher presents the activity and manages tasks and times. - P.4.2 The teacher supports the development of the group activity pivoting as necessary between the groups. - P.4.3 In his journey, the teacher makes observations about the performance of the students during the oral exchange.	Support students in the learning process	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 Arrangement	Learning Outputs (expected)	Assessment tool
	Subject area	Transversal skills						
			<ul style="list-style-type: none"> - AL.4.1 Students perform the proposed activities. - AL.4.2 Summaries on the proposed video are done in pairs. - 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. - AL.4.3 The students reflects individually on the task carried out in the "Learning" section of Mahara. - AL.4.4 The students, individually, complete the written test on the contents of the unit. 					

IV. Material, resources and students' artefacts

Material/resources for Learning Design

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



MACRO-LEVEL LEARNING DESIGNS

English as a Second Language: Food and Drink

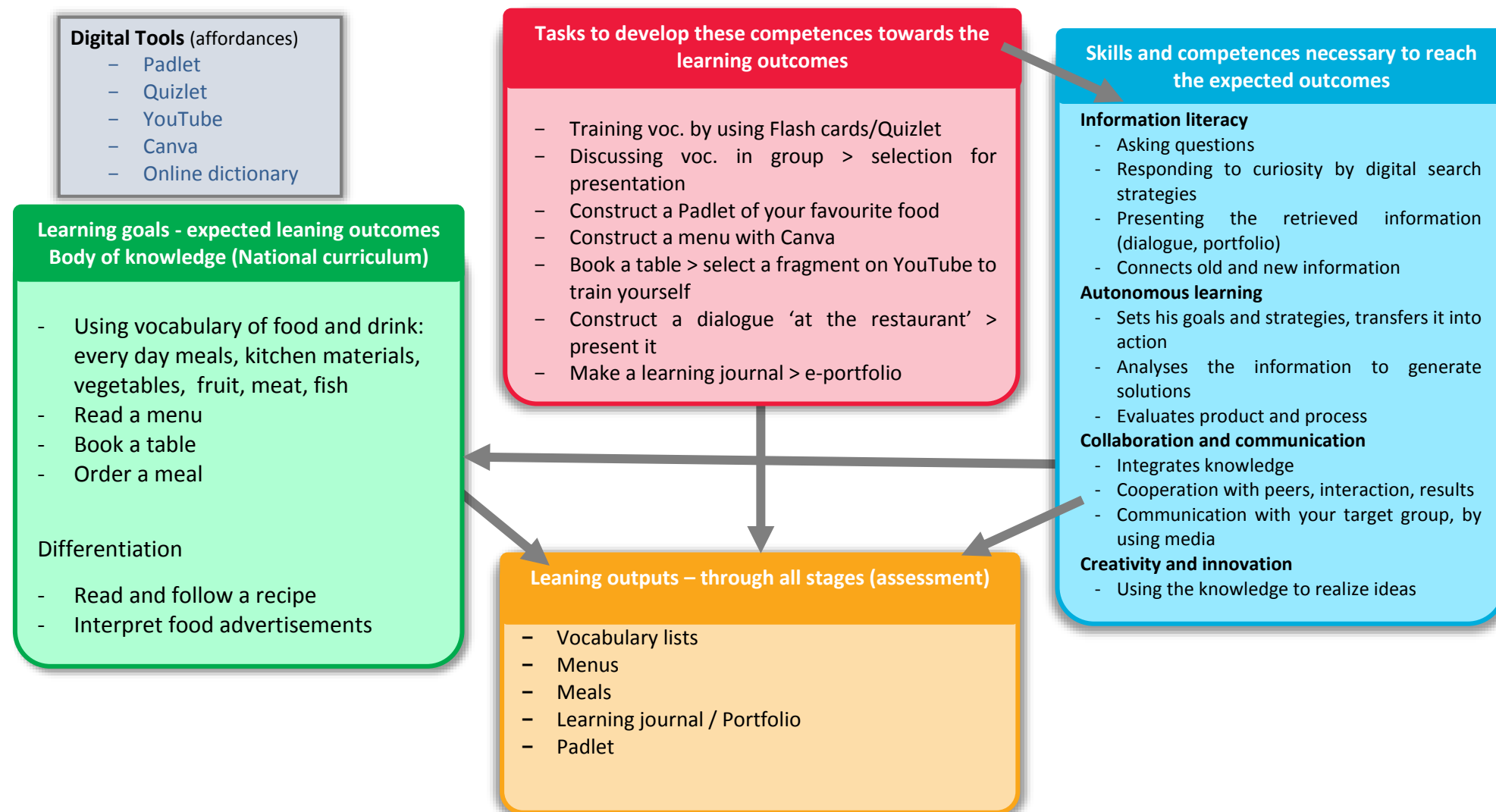


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*English as a Second Language: Food and Drink***I. GENERAL DESCRIPTION**

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

II. Learning Design Macro-level



Natural Science: Puberty



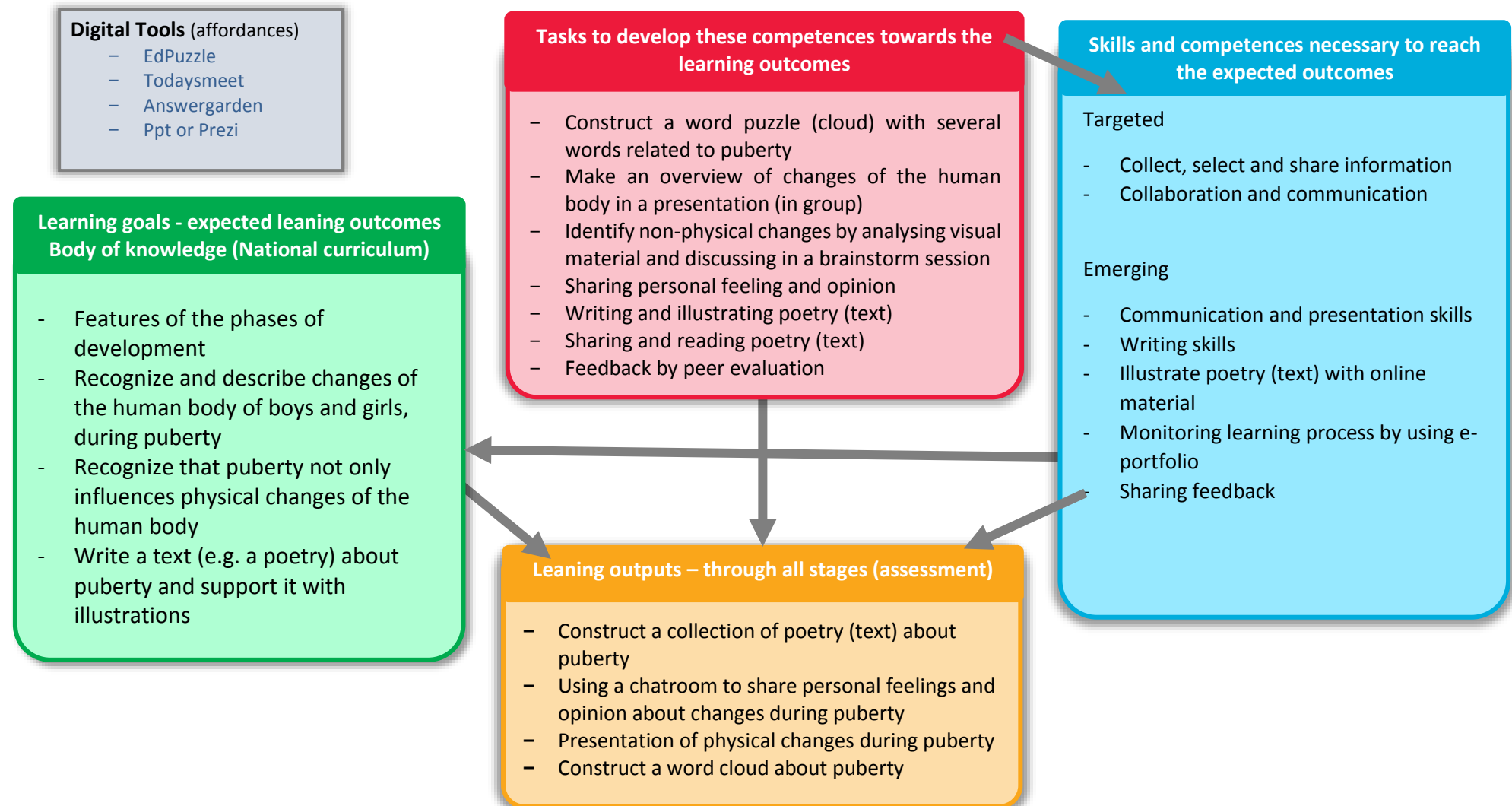
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*Natural Science: Puberty*

I. GENERAL DESCRIPTION

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

II. Learning Design Macro-level



Physical Education: Defence and Attack Games

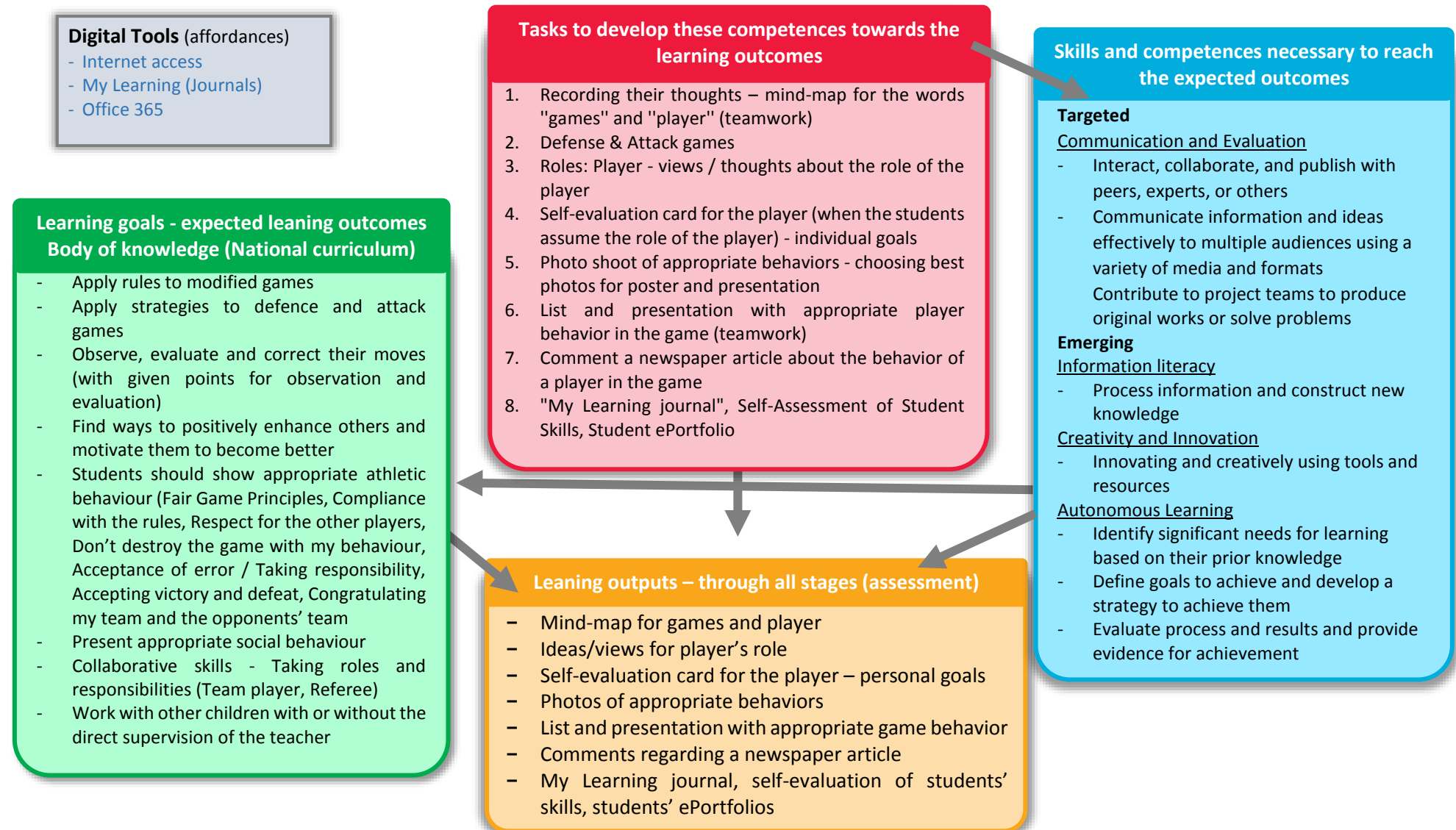


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*Physical Education: Defence and Attack Games***I. GENERAL DESCRIPTION**

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

II. Learning Design Macro-level



Modern Greek: Racism



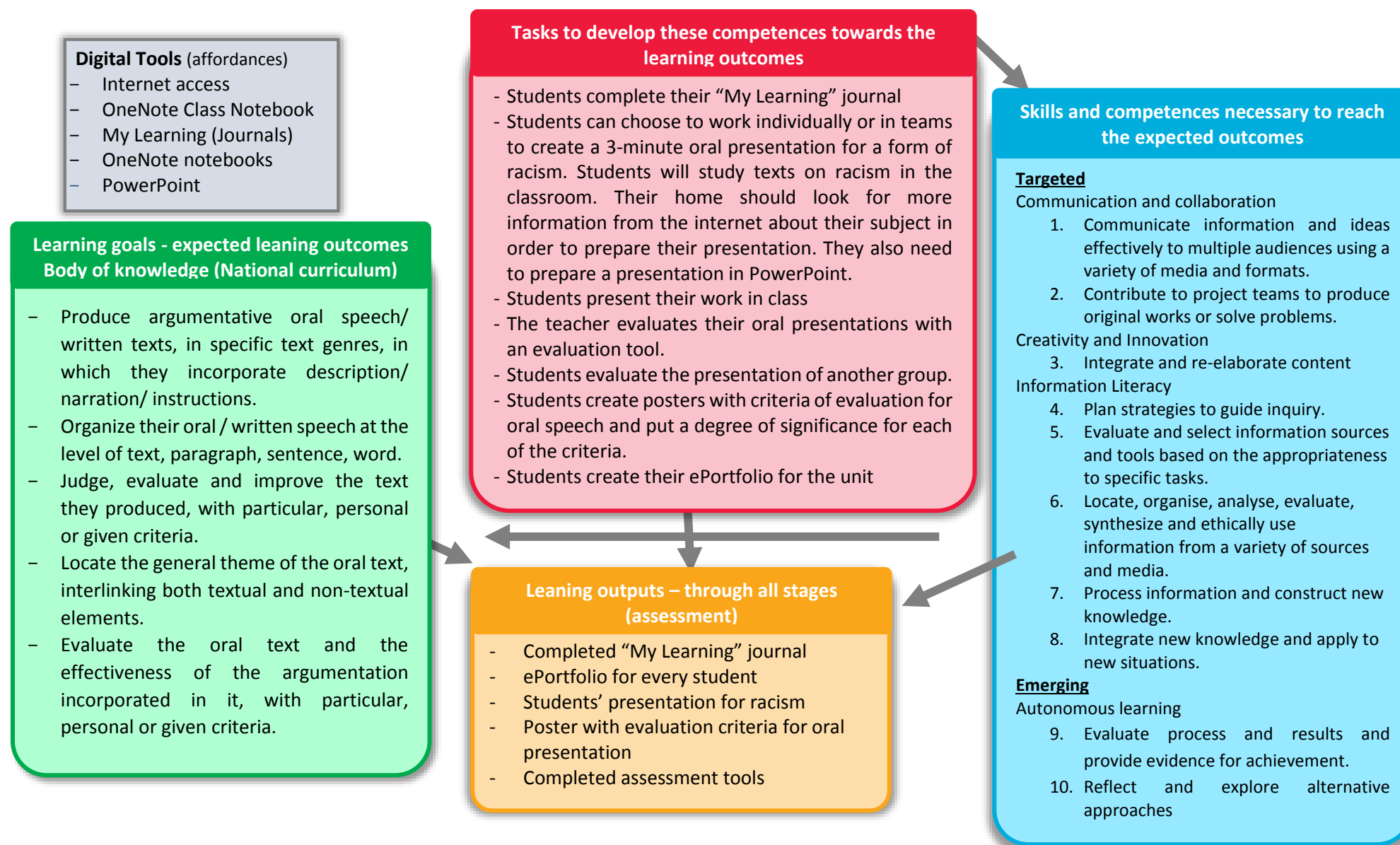
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*Modern Greek: Racism*

II. Learning Design 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

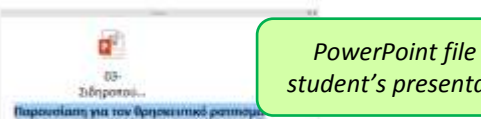
II. Learning Design Macro-level



III. Material, resources and students' artefacts

Exemplar ePortfolio

Αναστασία - ePortfolio ΕΝΟΤΗΤΑ ΡΑΤΣΙΣΜΟΣ



PowerPoint file of student's presentation



Photo of students' collaboration

Αναστασία Σάββατο	
Περιεχόμενο	5/5
• Πολύ καλή η εργασία σας! Δώσατε τα βασικά στοιχεία, προβάλλοντας τα μάλιστα μέσα από εικόνες. Μηνάριό σας!	
• Ένα αρθρογραφικό λάθος: Έλασφη παύλη!	1/1
• Σωστή η σύνδεση των εικόνων με όσα αναφέρατε.	
Μεταδοτικότητα	2/2
• Κατάλαβα ότι, Αναστασία μου! Είχας άποψη στην παρουσίαση: πούστης, δικαιολογίες της φωνής, επικρούσεις με το κοινό, κόλποι και χειρονομίες.	
• Σημειώσατε ότι διατηρήσατε τη σοβαρότητά σας, όταν οι κάποιες από τους συμμαθητές σας γελούσαν.	
Αποδοτική χρήση	1/1
• Καλή διαχείριση του χρόνου.	
• Εμπειρία από άλλες παρουσιάσεις.	2/2
• Καλές σημειώσεις, Μηνάριό!	
	20/30

Teacher assessment

Αναστασία Σάββατο	
1. Μεταδοτικότητα	2
2. Γνωστική επάρκεια	6
3. Περιεχόμενο	5
4. Τηλεοπτική	2

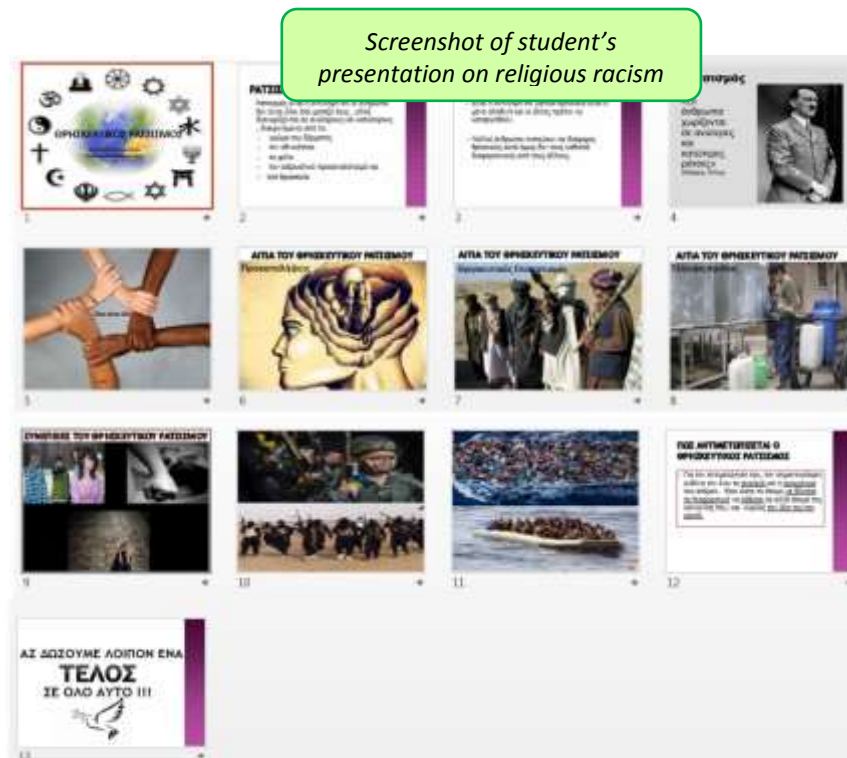
Student poster with evaluation criteria for oral speech



"My Learning" journal



Peer assessment



Screenshot of student's presentation on religious racism

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

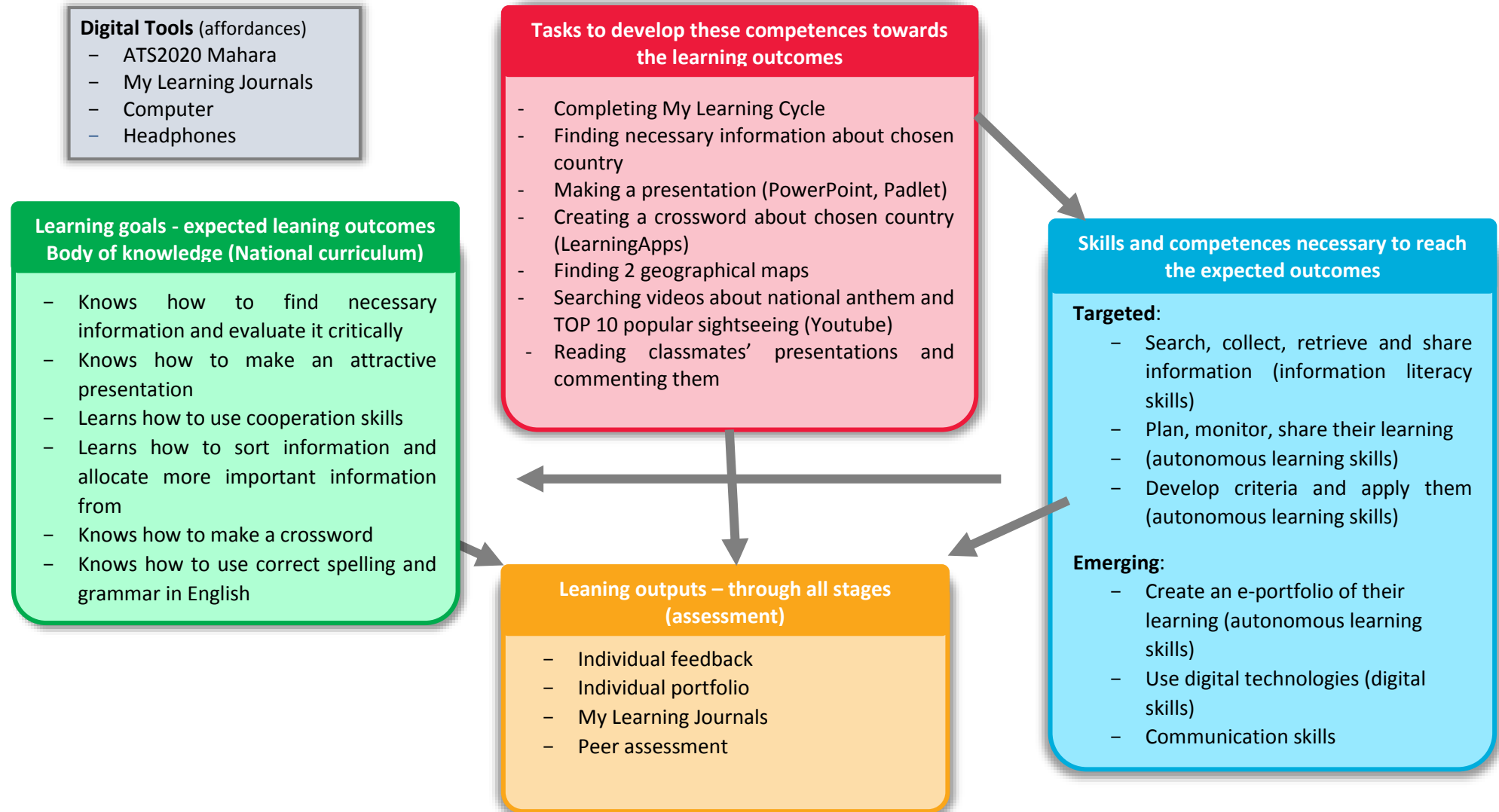


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*English as a Foreign Language: English-speaking countries and culture***II. Learning Design Macro-level**

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

II. Learning Design Macro-level



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

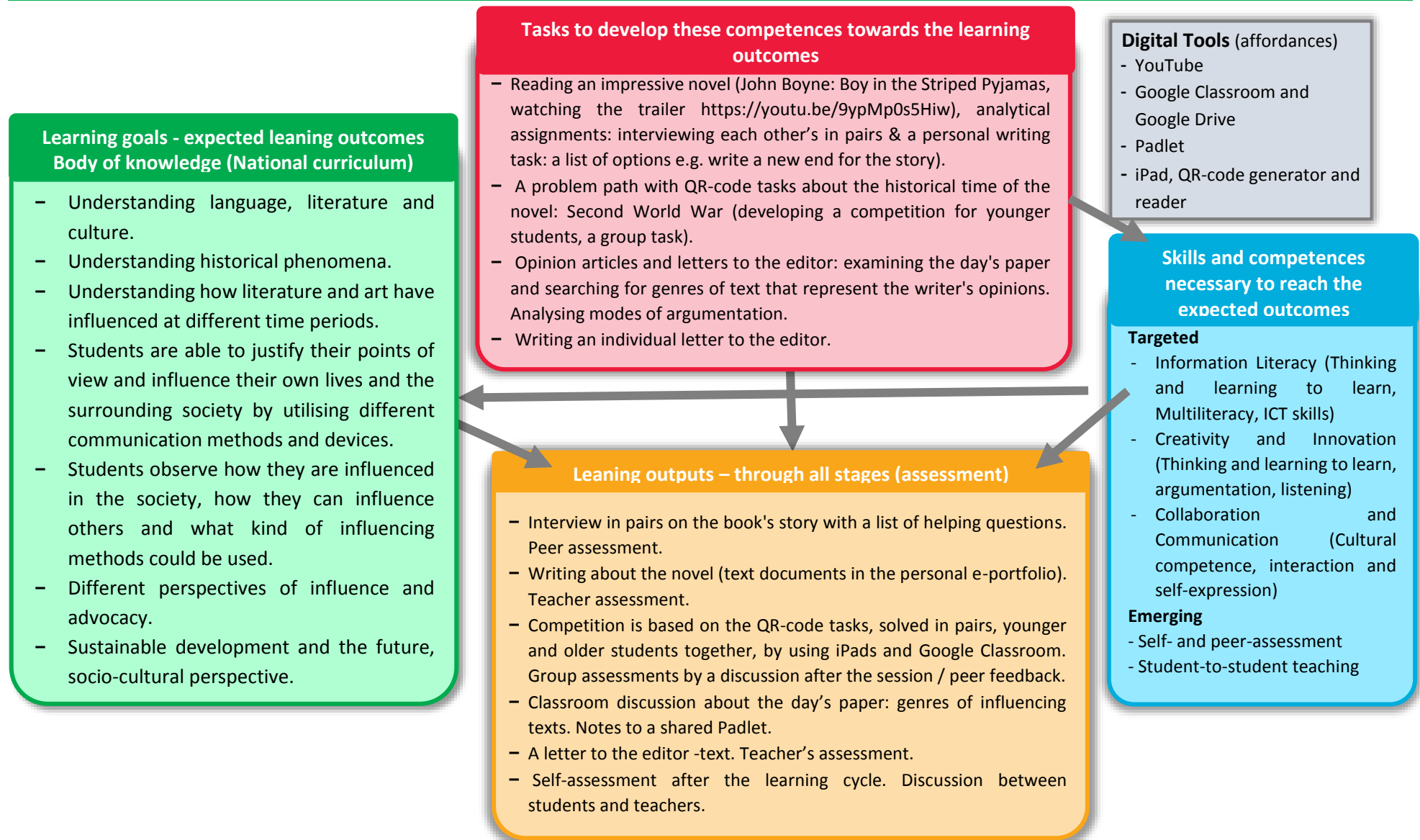


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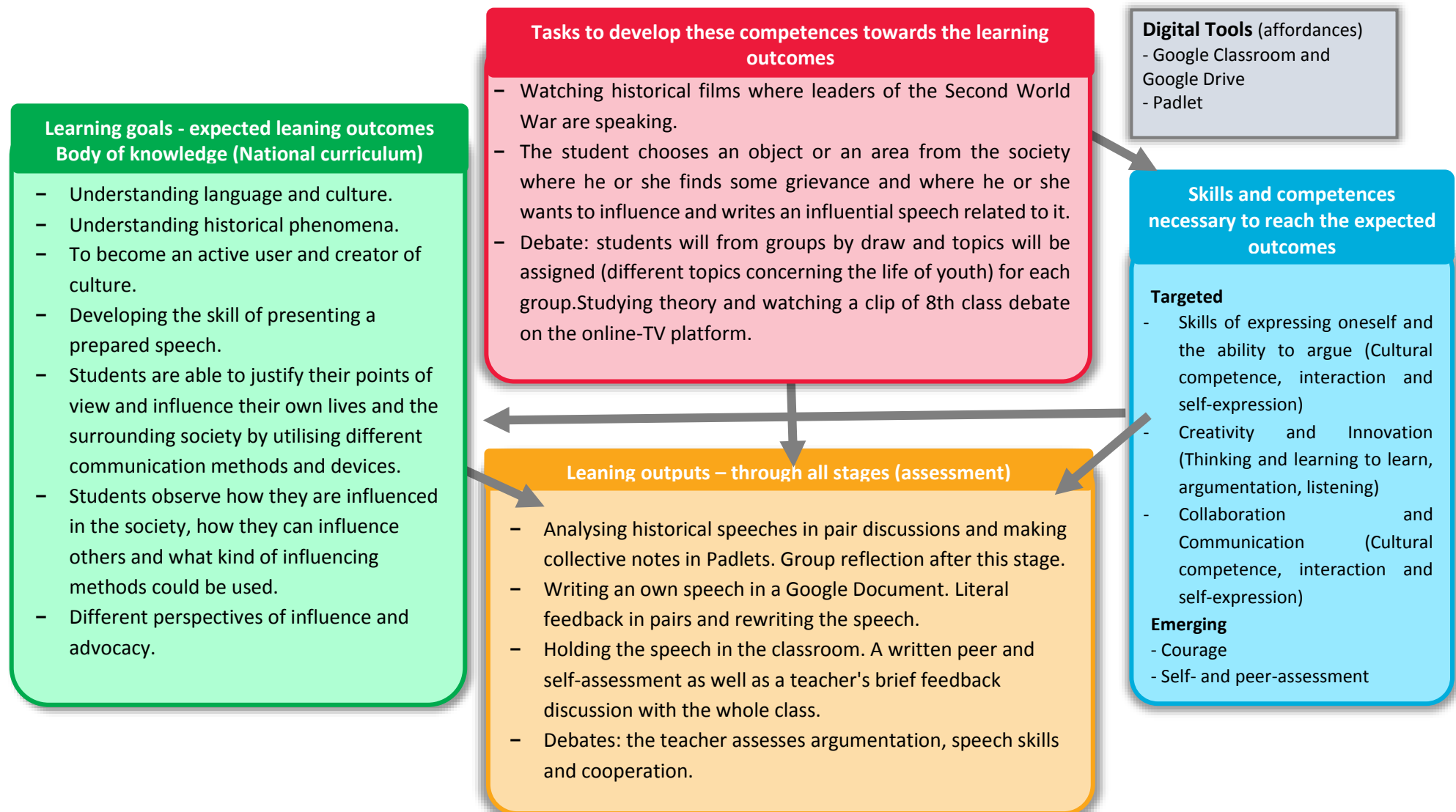
*Course project: How to influence?***I. GENERAL DESCRIPTION**

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	<p>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.</p> <p>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.</p>
Hosted (URL)	https://resources.ats2020.eu/resource-details/LEDE/influence

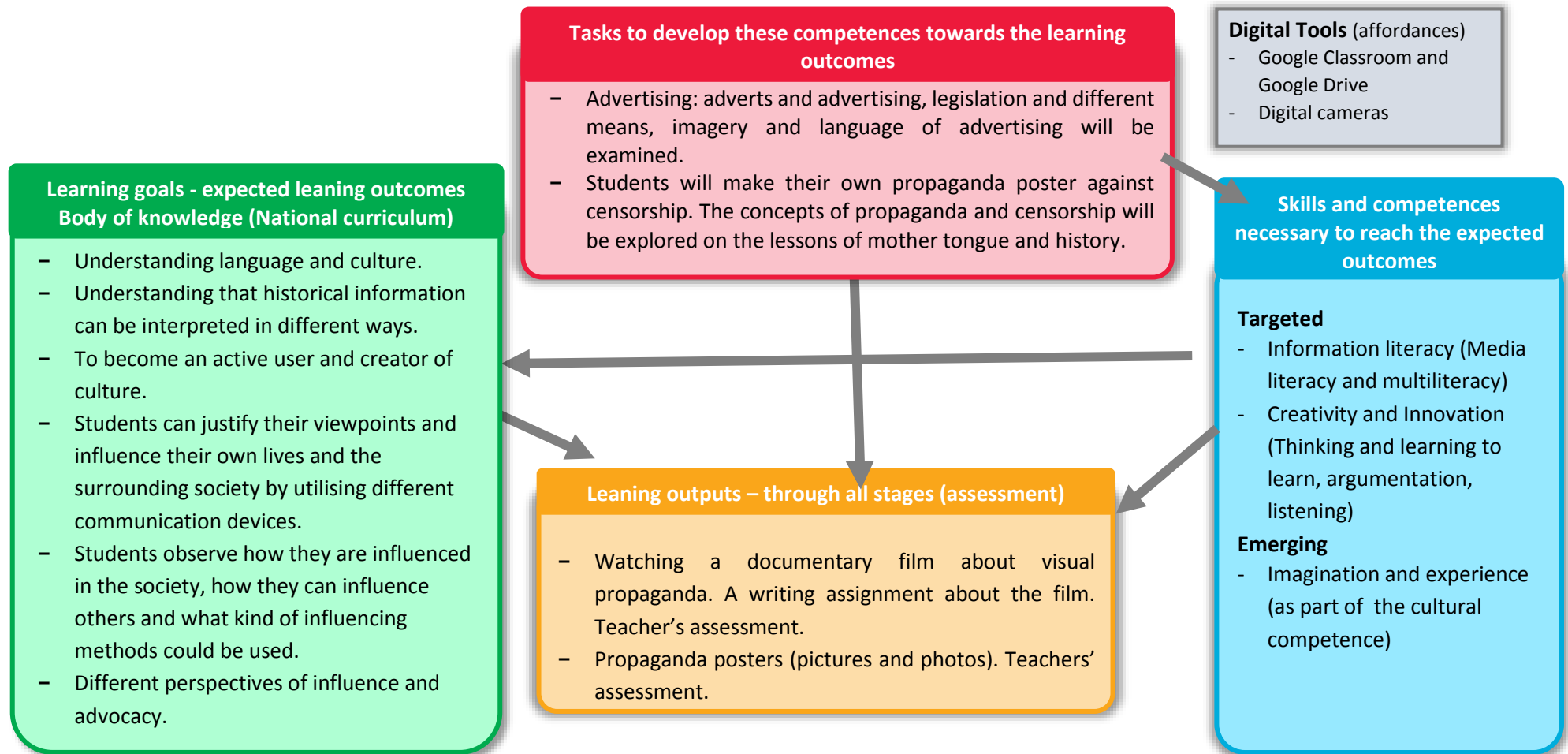
II. Learning Design Macro-level



II. Learning Design Macro-level



II. Learning Design Macro-level



Physics: Speed/Velocity- Linear Motion



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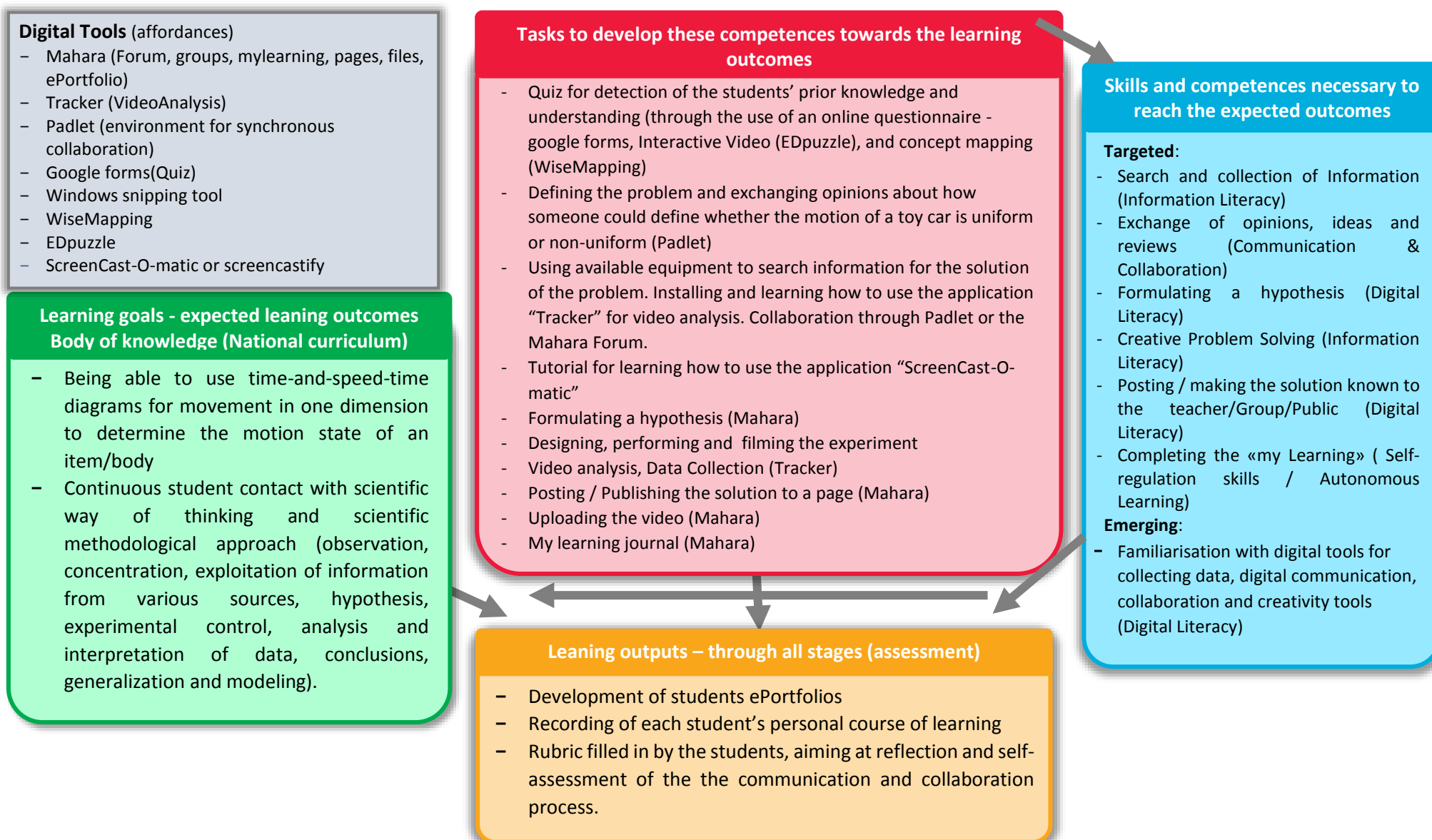


Physics: Speed/Velocity- Linear Motion

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

II. Learning Design Macro-level



Home Economics: Nutrition - Vegetarianism and Nutritional Trends

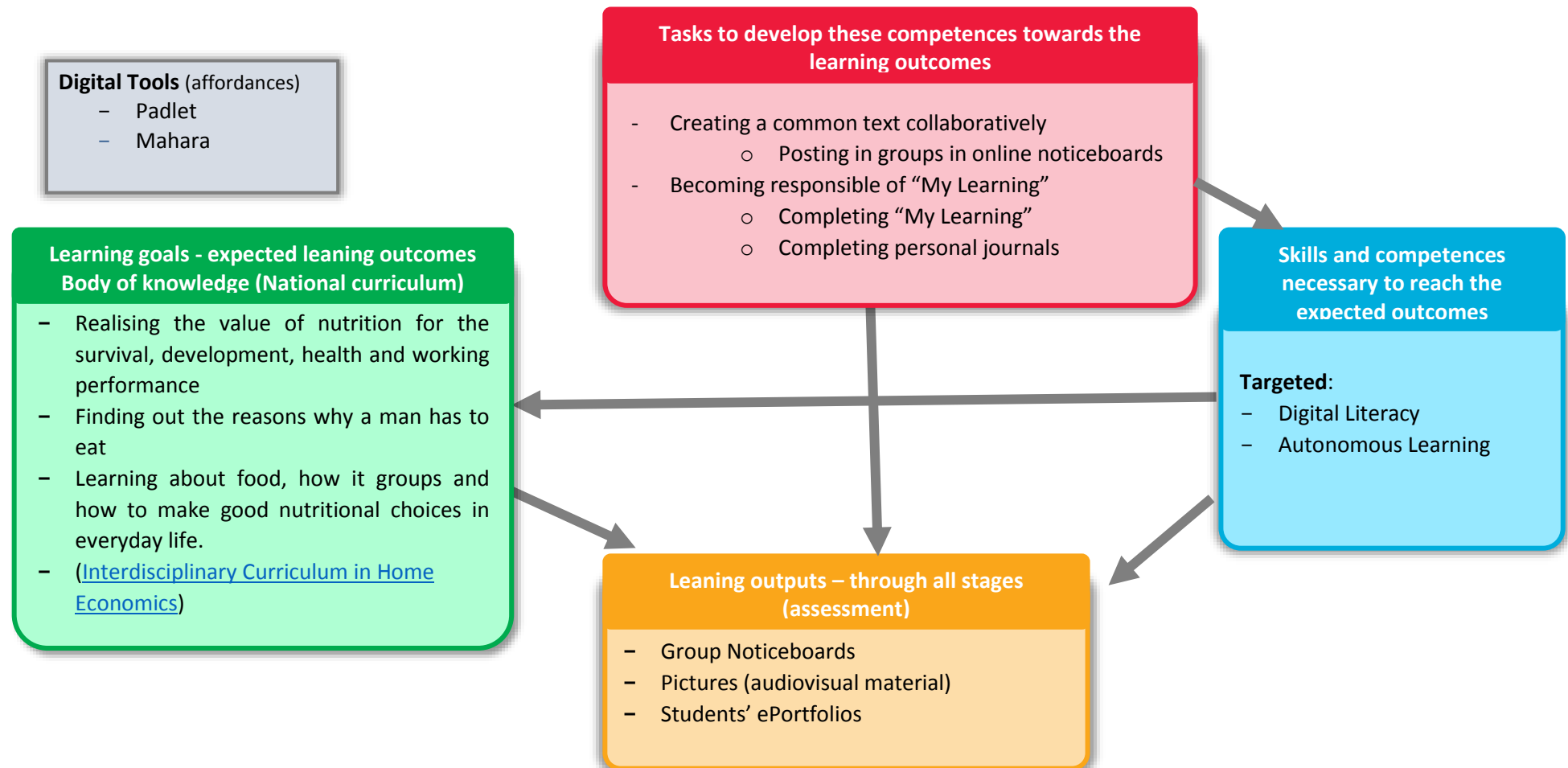


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*Home Economics: Nutrition - Vegetarianism and Nutritional Trends***I. GENERAL DESCRIPTION**

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/ooodiatrofi

II. Learning Design Macro-level



Business Studies: Marketing Your Business

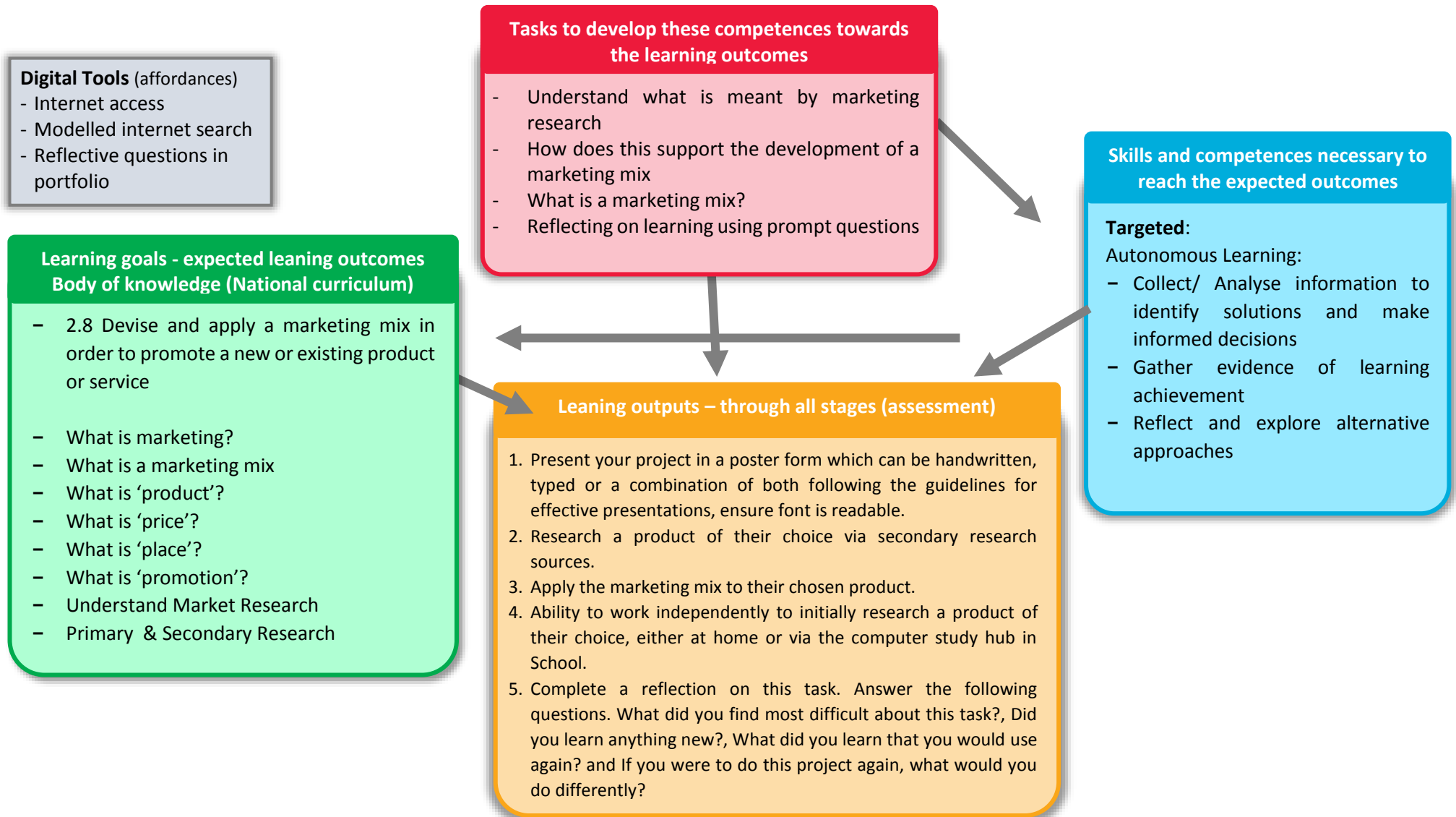


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*Business Studies: Marketing Your Business***I. GENERAL DESCRIPTION**

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

II. Learning Design Macro-level



III. Material, resources and students' artefacts

Project Pictures

Project : 1



Reflection on the Marketing Task: Bill O'Dwyer

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.

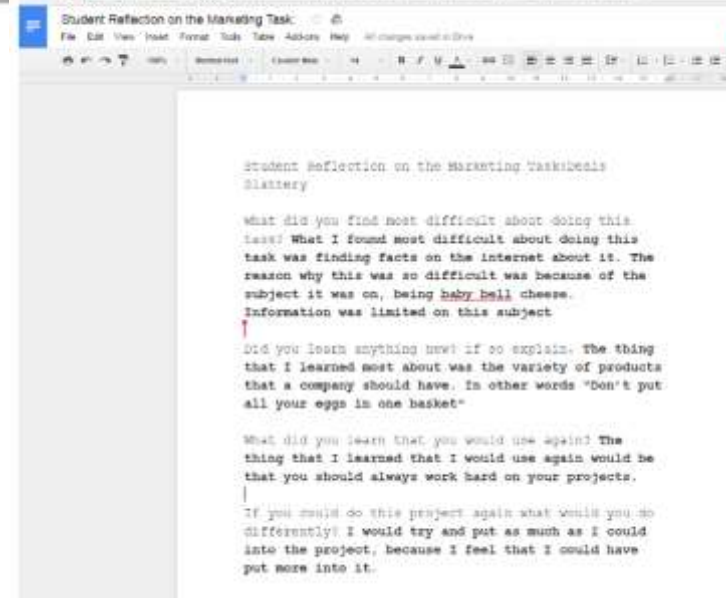
There really wasn't anything new I had learned. But I have now gotten experience in making posters like these so that in the future, I can do the poster with ease.

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?

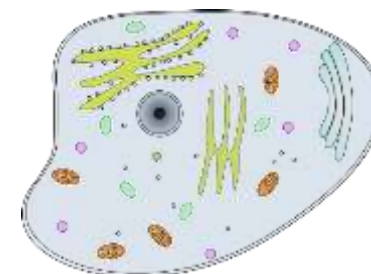
I would have less photos and more information.



Science: Modelling the Cell

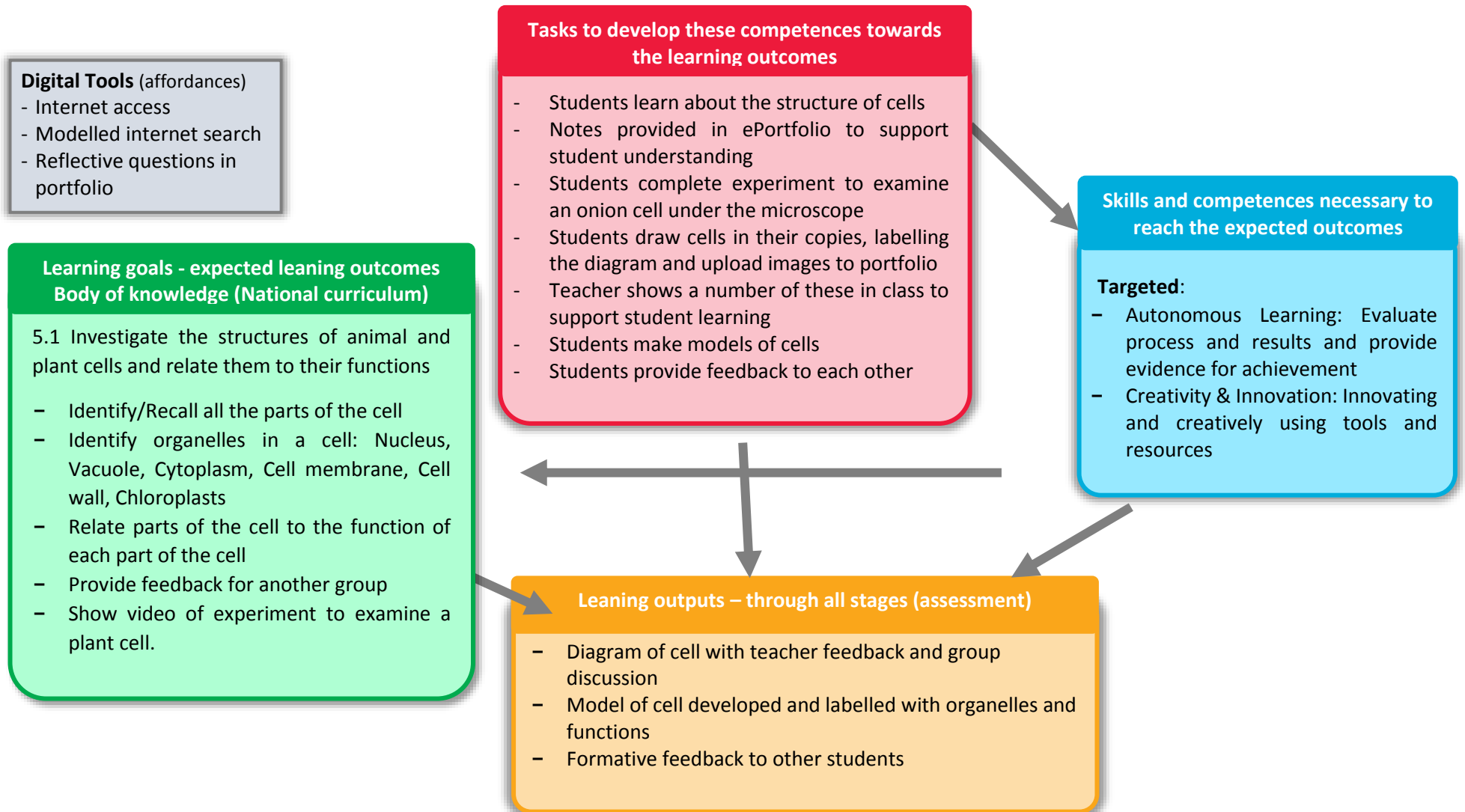


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*Science: Modelling the Cell***I. GENERAL DESCRIPTION**

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

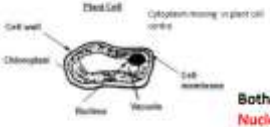
II. Learning Design Macro-level



IV. Material, resources and students' artefacts

Cells
Wednesday, December 03, 2016 12:22 PM

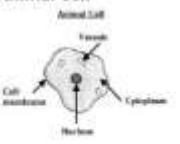
Plant cell



Photosynthesis:
Plants use light make food, need chemical chlorophyll

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

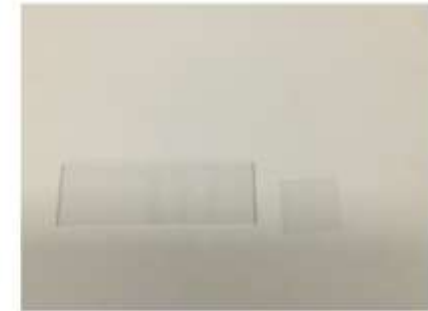


Different:
Plant cells only have chloroplasts???
Why: contain chlorophyll need to make food
Cell wall only in plant cell: give it strong rectangle shape
Larger vacuole: needs store food it makes

Examine a plant cell
Wednesday, December 14, 2016 12:37 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.
6. Using a microscope and different magnification lens draw diagram of a plant cell.



Slide & Coverslip



Onion Cell



Microscope & Slide

Student Plant cells
Wednesday, December 14, 2016 12:37 AM

