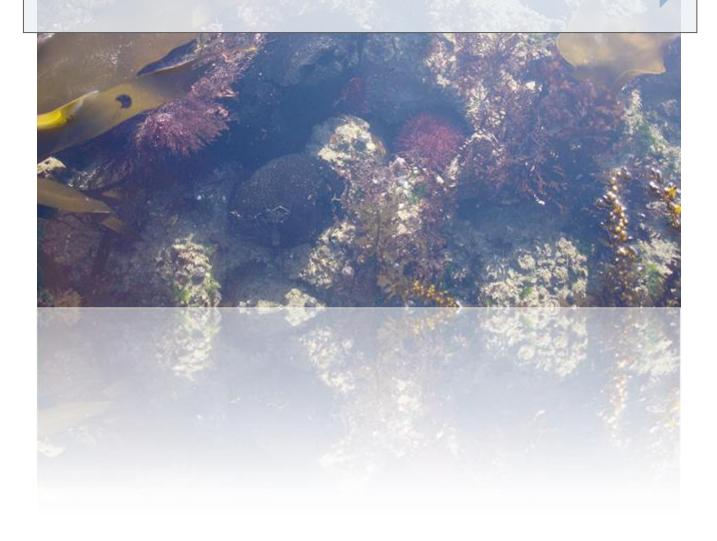


TEACHERS' GUIDELINE

"DOES A DROP OF WATER MAKES A DIFFERENCE IN PLANET EARTH?"



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PROJECT DETAILS

SCHOOL YEAR			
SCHOOL YEAR LEVEL	8ºth (13-14 year old)		
TERM			
SESSIONS			
TITLE	"DOES A DROP OF WATER MAKES A DIFFERENCE IN PLANET		
EARTH?"			
SUBJECTS	Mathematics, Natural Science, Physics-chemistry, Mother tongue,		
30032013	Geography, ICT, English		
	How much water is there on, in, and above the Earth?		
UNIFYING THREADS	Where is Earth's water located?		
(DRIVING QUESTIONS)	Why Is water so essential for Life?		
	Why do we need to conserve water?		



	A: TRANSVERSAL COMPETENCES			
	COMPETENCE (EU)	TASKS		
	1.Learning to learn	4		
	2.Sense of initiative and entrepreneurship	3-4-5-19		
	3.Social and civic	1-3-15-19-20		
L/EV/ OOMBETENIOES	B: SUBJECT COMPETENCES			
KEY COMPETENCES	COMPETENCE (EU)	TASKS		
	4.Communicating in the mother tongue	17-18-19		
	5.Communicating in a foreign language	16-18		
	6.Digital	3-4-14		
	7.Mathematical, scientific and technological	6-7-8-9-10-11-12-13-19		
	8.Cultural awareness and expression			



	INTELLIGENCE	TASKS		
	1. Interpersonal	1-3-4-15-18-19-20		
	2. Intrapersonal	3-4-5-15		
	3. Visual-spatial	5-14		
MULTIPLE INTELLIGENCES	4. Bodily-kinesthetic			
	5. Musical-rhythmic			
	6. Verbal-linguistic	2-16-17-18-19		
	7. Logical-mathematical	8-10		
	8. Naturalistic	6-7-9-11-12-13-19		
	DISCIPLINARY OBJECTIVES and CROSS-DISCIPLINA OBJECTIVES			
	MAIN OBJECTIVE			
DISCIPLINARY	To identify behaviours that might redu	ce the water consumption		
OBJECTIVES and CROSS-DISCIPLINARY	0.General objectives			
OBJECTIVES	0.1. To Work as a team and take responsibility			
What do we want	1.Natural Science			
students to understand?	1.1. To identify the water distribution in Nature			
(OOMDDELIENGION	1.2 To identify the movement of water through the different stages of the water cycle			
(COMPREHENSION GOALS)	1.3 To identify the several uses of water in human being activities- industry, tourism energy			

1.4 To identify the wastewater treatment procedures

1.5 To identify the behaviours that reduce water consumption and promote water



2.Mathematics 2.1. Collect and process data 2.2. To define one math function to translate the collected data 3. Foreign Language (English) 3.1. Learn specific vocabulary: Sweet water; Salt water; potable water; percentage; as condensation; evaporation, and precipitation ... 3.2. Improve communicating and writing skills 4. Mother Tongue 4.1. To improve communicating and writing skills 4.2. To Improve and enrich vocabulary in mother tongue 5. Physics-Chemistry 5.1. To identify the parameters of potable water 6. Geography 6.1. To analyse the water consumption in the world and Europe 6.2. To compare the differences in water consumption between development and non-development countries 7.ITC 7.1. To identify the steps to produce one flyer about the behaviours towards water consumption 7.2. Know how to use various computer tools for the development of flyer A challenge will be proposed to students to build a flyer with the main tips on behaviours that reduce consumption and conserve water, saving consumers **PROJECT** money. **PRESENTATION** Presentation of the flyer in several school networks and in several spaces of

quality



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	the school and local community.
FINAL PRODUCT	Flyer about responsible water consumption



SEQUENCE OF TASKS

Tasks in bold are necessary, and the rest are optional. They depend on the teachers involved in the project and the school facilities.

A. PREVIOUS TASKS

- 1. Task: Team dynamics (Attention: If the student group persists from the previous task, it will not be necessary to implement this task)
- 2. Task: Project presentation in library school and the social networks
- 3. Task: Team planning
- Task: What I know-What I need to know 4.
- Task: Specify flyer design and appoint the responsibilities

B. RESEARCH / DEVELOPING TASKS

- Task: How is water distributed on planet Earth?
- 7. Task: Where does my water come from?
- Task: What is Potable water? 8.
- Task: Water what kin d of use in the life of the human being?
- 10. Task: What is my water consumption when I take a shower?
- 11. Task: What are the wastewater treatment procedures?
- 12. Task: What are the behaviours that reduce water consumption and promote water quality?
- 13. Task: What is the water consumption in the world and Europe? Are there differences in water consumption between development and non-development countries?
- 14. Task: Construction of a flyer with the behaviours that reduce water consumption and promote water quality
- 15. Task: Team planning assessment
- 16. Task: Learn vocabulary in English
- 17. Task: The theme "water" in the articles / texts of newspapers, magazines, poems ...

C. FINAL TASKS

- 18. Task: flyer presentation
- 19. Task: flyer dissemination
- 20. Task: Final team planning assessment



INDICATORS

MAIN OBJECTIVE

To identify behaviours that might reduce the water consumption

0. General objectives

- 0.1.1. The student achieves team objectives
- 0.1.2. The student achieves individual objectives
- 0.1.3. The student fulfils his/ her responsibilities

1. Natural Science

- 1.1.1. Describe the water cycle using words, pictures and tools
- 1.1.2. Describe the water cycle creating a water cycle Draw
- 1.2.1. Indicates the different stages of the water cycle as a consequence of the movement of water in nature
- 1.2.2. Be able to name and explain the stages of the water cycle
- 1.3.1. Be able to identify the several uses of water in human being activities industry, tourism, energy
- 1.4.1. Be able to identify the residual water treatment procedures
- 1.5.1. Be able to identify the behaviours that reduce water consumption and promote water quality

2. Mathematics

- 2.1.1. Collects, organizes and processes the data
- 2.1.2. Construct tables, graphs, diagrams or lists for visualization of results
- 2.2.3. Identifies one math function to translate the collected data

3. Foreign Language (English)

- 3.1.1. States the names about the water cycle, using terms such as condensation, evaporation, and precipitation...
- 3.2.1. Expresses technical verbs in the foreign language

Mother Tongue

- 4.1.1. Correct reading and analysis of articles/texts/poems of newspapers, magazines, ... about the theme "water"
- 4.2.1. Learn new words related to water: Basic sanitation, drinking water, fouled water, sweet water...

5. Physics-Chemistry

5.1.1. Identifies the physical-chemical parameters of drinking water: colour, temperature, taste and odor and pH.



6. Geography

- 6.1.1. Identifies the water consumption in the world and Europe
- 6.2.1. Understands differences in water consumption between development and non-development countries

7. ITC

- 7.1.1. Use the various steps to develop a flyer
- 7.2.1. Use various computer tools for the development of flyer

TOOLS:

Rubrics

The table filled in by each student Report with a qualitative analysis of the flyer

Reflections and evidences

REFLECTIONS (3T; 15T; 20T)



TASKS

PREVIOUS TASKS

1. Task: Team dynamics*			Session: 20 min
COMPETENCES	Interpersonal		
GOALS	Learning to work in teams		

^{*(}Attention: If the student group persists from the previous task, it will not be necessary to implement this task)

Task description:

We will suggest a team dynamics so that students get to know each other.

Teacher's notes:

In order to know each other, the teacher will ask students several questions and everyone will have to write down their answers. Then, students will talk about their answers in groups.

Example:

WHO AM I?

Objectives: To make known group members quickly, in a relatively non-inhibiting environment.

How to make:

- 1- Each one receives a sheet entitled "Who am I?"
- 2- For 10 minutes each one writes five items in relation to himself, that facilitate the knowledge.
- 3- The written sheet will be affixed to the participants' blouses.
- 4- The members of the group circulate freely and quietly around the room to the sound of soft music as they read about each other and let others read what he wrote about himself.
- 5- 5-Soon after gathering 2 to 3 colleagues, with whom they would like to talk to get to know each other better. At this point you can ask questions that you would ordinarily not ask.

Evaluation:

- A. What was the exercise for?
- B. How do we feel?



2. Task: Project presentation			Session: 25 min
COMPETENCES Social and civic INTELLIGENCES			Verbal-linguistic
GOALS	To motivate students		

Task description:

Public presentation in the school library and reporting on social networks. The headmaster is worried about the water consumption and costs for the school. For that reason, the headmaster invited the councilman responsible for the environment will be to speak on the "Use and management of water resources in the municipal council".

The school principal will propose a challenge to the students to build a flyer with the main tips on behaviours that reduce consumption and conserve water, saving consumers money.

At the end of the project, the flyer will be presented at school, libraries, Town hall and in social networks, with a view to changing behaviours and habits of water consumption.

Teacher's notes:

When we present the project we need to motivate the students. The presentation of the project needs to be appealing. It is very important to create a special atmosphere to attain motivation. This is the moment when we can boost their interest.

The teachers that will take part in the project will also be present in the project presentation, explaining their role in the project.

3. Task: Team	Session: 45 min			
COMPETENCES	Social and civic Sense of initiative and entrepreneurship Digital	INTELLIGENCES	Interpersonal Intrapersonal	
GOALS	Learning to work in teams and to control teamwork			

Task description:





Each team will define its team planning, which will consist of three parts: team objectives, individual objectives and responsibilities.

Team objectives:

All teams will have objectives: Each team will be responsible for their own task concerning "Does a drop of water makes a difference in Planet Earth?" and will be responsible, as well, to add their presentation in the flyer.

Individual objectives:

Each student will have 2 individual objectives: one about their role in the task and another about the deadlines accomplishments.

Responsibilities: Responsibilities will be assigned by the teacher.

Assessment tools (rubrics...):

- Checklist; 3T TEAM PLANNING_Task2_Portugal.xlsx

Checklist Example:

Did you [♯]	С	neck¶		Evaluation	1¶	Comments
	Yes⋯	·····No ^Ḥ				
Personal Objectives: 1	4	4	H	H	H	Ħ
1. 1	п	н				
2. 1						
3. ¶						
1						
3						
Д	-	<u> </u>	<u></u>	<u> </u>	<u> </u>	.
Team Objectives: ¶	¶ H	П	П	Д	Д	н
1. ¶ 2. ¶	H					
3. 1						
5. ·						
Responsibilities: ¶	н	п	П	П	П	н
1. 1	"	"		"	"	_
2.¶						
3. ¶						
п						
Self-evaluation:	н	Ħ	н			н
1. I stay focused while doing my work 1						
2. I did work I am proud of						
3. I am confident that I did my best ¶						
4. ¶						
5. 4						
4						



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4. Task: What I	Session: 30 min		
COMPETENCES	Learning to learn Sense of initiative and entrepreneurship Digital	se of initiative and entrepreneurship	
GOALS	Learning to work in teams		

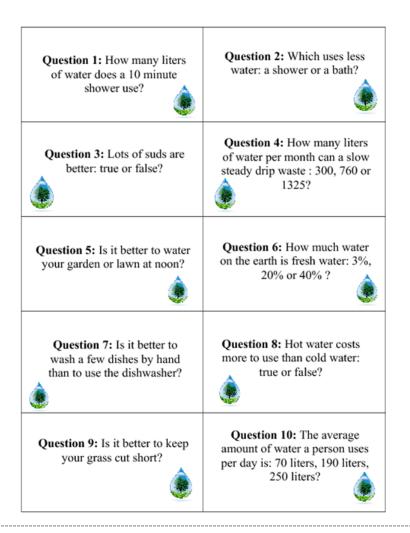
Task description:

Each team will consider what they already know about the task and what they need to know in order to carry it out.

Teacher's notes:

The teacher will pay special attention to students' answers, and based on these answers he/she will suggest suitable tasks to carry out the project.

Example:





- While walking around your neighbourhood or school, write 3 uses of the water you can see:
 - 1-
 - 2-
 - 3-

Assessment tools:

- see annex: 4T-12T-13T-15T WHAT I KNOW WHAT I NEED TO KNOW WHAT I'VE LEARNT_Task2_Portugal.xlsx
- Diagnose what the student knows about the distribution of water on planet Earth, movement of water on the planet, use of water by humans, how to preserve water 4th Task – What do I know? What do I want to know?

5. Task: Speresponsibilities	ecify the parts of flyer and	l appoint the	Session: 30 min
COMPETENCES	Sense of initiative and entrepreneurship	INTELLIGENCES	Interpersonal Verbal-linguistic
GOALS	Learning to work in teams		

Task description:

After specifying the amount parts of flyer, each team will designate one member of the group to take part of another team who will do the final version of the flyer.

In order to do that, it is necessary that all the students reach an agreement.

RESEARCH / DEVELOPING TASKS

6. Task: How is	Session: 1 h		
COMPETENCES	Naturalistic		
GOALS	To identify the water distribution in Nature		



Task description:

Students watch videos about of the distribution of water on planet earth.

The students record in a table the differences related to the topics "Of the distribution of water on planet earth".

Assessment tools (rubrics...):

The table filled in by each student will be used for an intermediate assessment. (see annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx - Science Sheet)

Teacher's notes:

Example:

Table - "Of the distribution of water on planet earth ".

Reservoir	% of total
TOTAL	

Sites to explorer:

https://www.youtube.com/watch?v=W-TPG72FSgI

7. Task: Where does my water come from?			Session: 1 h
COMPETENCES	Mathematical, scientific and technological	Naturalistic	
GOALS	To identify the movement of water through the different stages of the water cycle		



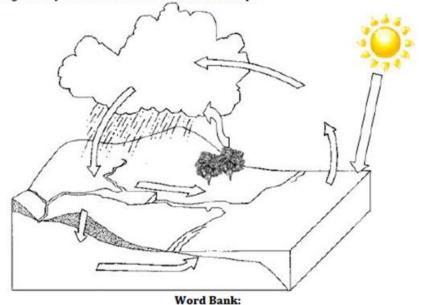
Task description:

Students will observe/investigate the movement of water through the different stages of the water cycle and determine what drives this cycle. (Use videos or images to explore the theme)

Teacher's notes:

Example1:

II. Water Cycle Video. There is no audio, so be sure to watch carefully as the sun comes up and heats the land and water, and then goes through the whole water cycle. Be sure to label the arrows on your water cycle diagram as you watch. Use the word bank for help.



Evaporation Condensation Precipitation

Run off Groundwater Runoff Transpiration

Infiltration Solar Radiation

- 1. Which parts of the water cycle require energy from the sun?
- 2. Which parts of the water cycle require the water molecules to give away heat energy (cool down)?
- 3. Which parts of the water cycle are caused by the force of gravity?



Example 2 (water cycle mini-project):

	lame:	Date:	
The Water Cycle: Draw a diagram that describes how wat	ter changes states In	the environment, from liquid to solid and liquid	d to gas.
st examples of water in a solid form in t	the environment.	What happens to water vapour when it coo	ls?
st examples of water in a solid form in t there does water occur naturally on ear	_	What happens to water vapour when it cool	
	th in a liquid state.		

Sites to explorer:

http://www2.elken.com/wp/home-appliances/k-series/where-does-your-water-come-from/

http://green-behavior.com/about-gb/where-does-our-water-comes-from-infographic.htm

https://water.usgs.gov/edu/watercycle.html

https://water.usgs.gov/edu/watercycle-kids.html

https://www.youtube.com/watch?v=iohKd5FWZOE



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Assessment tools:

The worksheet filled in by each student will be used for an intermediate assessment (see annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx - Science Sheet)

8. Task: What is Potable water?			Session: 30 min
COMPETENCES	COMPETENCES Mathematical, scientific and technological INTELLIGENCES		
GOALS	To identify the parameters of potable water		

Task description:

The students have to look for the definition of drinking water. Students should look in the region for the parameters used by the responsible entities for piped water.

Sites to explorer:

https://www.enkiverywell.com/potable-water.html

9. Task: Water- what kind of use in the life of the human being?			Session: 30 min
COMPETENCES	Mathematical, scientific and technological	Naturalistic	
GOALS	To identify the several uses of water in human being activities - industry, tourism, energy		

Task description:

Students will identify activities where humans use water. Students should identify and name these activities by filling out a table for this purpose.

Example:

Activity Name	Type: Industrial; Recreation; Domestic

Sites to explorer:



https://www.youtube.com/watch?v=_axryuZdKT0

https://www.youtube.com/watch?v=Dcdo7sRSUEw

https://fracfocus.org/water-protection/hydraulic-fracturing-usage

http://www.thegarsts.com/plumbing.htm

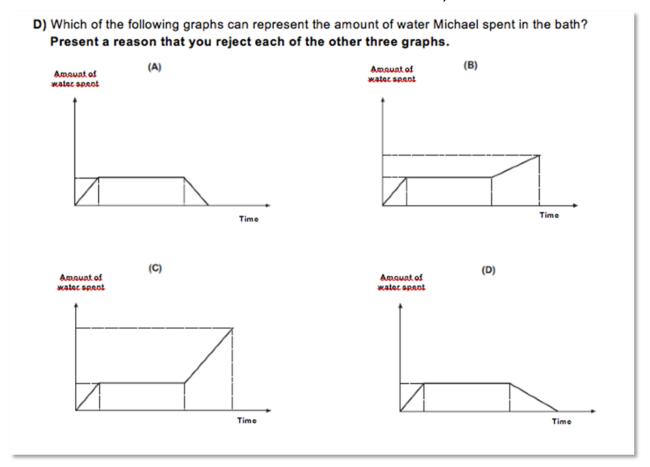
10. Task: What is my water consumption when I take a shower?			Session: 2 h
COMPETENCES	Mathematical, scientific and technological	INTELLIGENCES	Logical-mathematical
GOALS			

Task description:

Students explore a worksheet (see annex worksheet_Math_shower_English.doc) with various water consumption situations (graphs of water consumption as a function of time). From the examples identify the formula that explains the data obtained.

Example in worksheet_Math_shower_English.doc:





Assessment tools:

The worksheet filled in by each student will be used for an intermediate assessment (see annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx – Math Sheet)

11. Task: What are the wastewater treatment procedures?			Session: 2 h
COMPETENCES	Mathematical, scientific, technological	Naturalistic	
GOALS	To identify the wastewater treatment procedures		

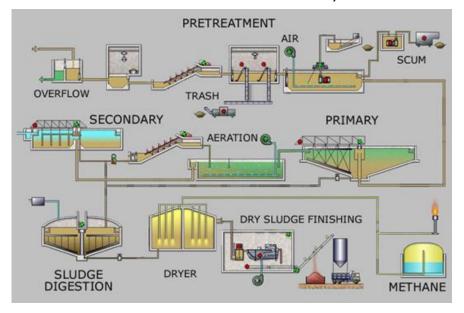
Task description:

Students identify wastewater treatment processes by watching videos/images or visiting a "Wastewater Treatment Plant".

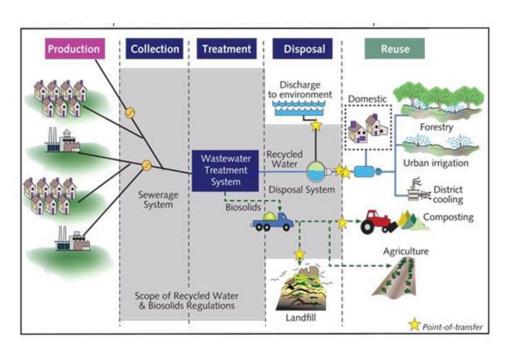
Example:



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https://en.wikipedia.org/wiki/Sewage_treatment



http://www.waterworld.com/articles/wwi/print/volume-28/issue-1/regional-spotlight/middle-eastafrica/stepping-up-monitoring-for-the-gcc-s.html

Sites to explorer:

http://www.beachapedia.org/Wastewater_Recycling

https://www.youtube.com/watch?v=GVm-d-zOxJs



https://metrocouncil.org/Wastewater-Water/Publications-And-Resources/MCES-INFORMATION/Educational/ES_kids_book-pdf.aspx

http://steonline.org/circles/lessons/water/water stinky-clean.html

	hat are the behaviours that and promote water quality?	reduce water	Session: 2 h
COMPETENCES	Mathematical, scientific and technological	INTELLIGENCES	Naturalistic
GOALS	To identify the behaviours that reduce water consumption and promote water quality		

Task description:

Students will identify behaviours that reduce water consumption and promote water quality. Students should, in workgroup, identify this behaviour by filling out a table for this purpose.

Example:

Behaviours	Advantages/ Disadvantages	

Sites to explorer:

https://www.youtube.com/watch?v=Vlaw5mCjHPI

https://www.youtube.com/watch?v=UAmkL977oAQ

https://www.youtube.com/watch?v=4MDLpVHY8LE

https://www.youtube.com/watch?v=hLcKn1M5fRQ

https://www.youtube.com/watch?v=cV_Vr_xgrn0

http://www.watercalculator.org

http://www.nationalgeographic.com/environment/freshwater/water-conservation-tips/

http://www.sswm.info/category/implementation-tools/water-use/hardware/optimisation-water-usehome/reduce-water-consumptio

Assessment tools:





The table filled in by each student will be used for an intermediate assessment (see annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx;

4T-12T-13T-15T WHAT KNOW WHAT NEED TO KNOW **WHAT** ľVE Τ 1 LEARNT_Task2_Portugal.xlsx) - 12th Task - What Have I Learnt?

Europe? Are t	13. Task: What is the water consumption in the world and Europe? Are there differences in water consumption between development and non-development countries?		
COMPETENCES	Mathematical, scientific and technological	Naturalistic	
GOALS	To analyse the water consumption in the world and Europe To compare the differences in water consumption between development and non-development countries		

Task description:

See a video about the water consumption in the world. Analyse charts about these reality

Divide students between developed and developing countries and each presents the difficulties and arguments about water consumption in their country.

Make a summary table

	Water consumption	difficulties	solutions
Non-development			
countries			
Development countries			

Teacher's notes:

https://www.youtube.com/watch?v=A6G7yyUea6M

http://everylittledrop.com.au/knowledge-center/water-consumption-around-the-world/

https://www.youtube.com/watch?v=XAcY8Fwxc7A (example)

http://mundoeducacao.bol.uol.com.br/geografia/consumo-agua-no-mundo.htm





14. Task: Construction of a flyer with the behaviours that reduce water consumption and promote water quality			Session: 6 h
COMPETENCES	Digital	INTELLIGENCES	Visual-spatial
GOALS	To identify the steps to produce one flyer about the behaviours towards water consumption Know how to use various computer tools for the development of flyer		

Task description:

Students will explore the various computer tools for the development of a flyer.

Students will develop various flyers (group or individual).

Organization of a final flyer to present and disseminate the work developed in the various activities.

Teacher's notes:

Use tutorials available for "Canva's Free Flyer Maker" or "FlyerForFree" (for example)...

Examples:

https://designschool.canva.com/tutorials/

https://www.flyerforfree.com/tuto.php

Assessment tools:

The table filled by each student will be used for an intermediate assessment. (see annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx - ITC Sheet; 4T-12T-13T-15T WHAT I KNOW - WHAT I NEED TO KNOW - WHAT I'VE LEARNT_Task2_Portugal.xlsx) - What do I know?; What Do I want know?

15. Task: Team planning assessment			Session: 45 min
COMPETENCES	Social and civic	INTELLIGENCES	Interpersonal Intrapersonal
GOALS	Learning to work in teams		

Task description:





We will assess all the objectives established in the 3rd task, individual and team objectives as well as the responsibilities to reflect upon the things we are doing well and the issues that must be improved.

Assessment tools (rubrics...):

Students' will self-assess the objectives and responsibilities established in team planning (see annex-Checklist; 3T TEAM PLANNING_Task2_Portugal.xlsx)

16. Task: Vegetable production		Session: 2 h	
COMPETENCES	Communicating in a foreign language	INTELLIGENCES	Verbal-linguistic
GOALS	Learn specific vocabulary: Sweet water; Salt water; potable water; percentage; condensation; evaporation and precipitation Improve communicating and writing skills		

Task description:

Students will build and translate texts for a flyer.

Recourse to dictionaries for translation.

Assessment tools (rubrics...):

See in "18. Task: Flyer presentation" - The construction of sentences and the use of correct scientific terms (English). - Main Objectives sheet.

See annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx – English sheet.

17. Task: The theme "water" in the articles / texts of newspapers, magazines, poems		Session: 1 h	
COMPETENCES	Communicating in a mother tongue	INTELLIGENCES	Verbal-linguistic
GOALS	To improve communicating and writing skills To Improve and enrich vocabulary in mother tongue		

Task description:





The students research on articles/poems... (Newspapers, magazines ...) related to the theme "water". Reading and analysis of these articles.

All the texts researched and that will be the basis for the production of the flyer must be read and analysed in this task. New words should be pointed out and see their meaning, for example, in dictionaries, encyclopedias...

FINAL TASKS

18. Task: Flyer presentation		Session: 2 h	
COMPETENCES	Communicating in the mother tongue Communicating in a foreign language	INTELLIGENCES	Verbal linguistic Interpersonal
GOALS	To explain what students have worked on and learn throughout the making of the multimedia document		

Task description:

The students will propose some spokesmen chosen from those who participated in the preparation of the flyer, to present the project to parents. Students should try to organize it as much as possible and invite more people than their parents.

Assessment tools:

Report with a qualitative analysis of the flyer: Evaluation of scientific content (Mathematics, Physicalchemical, Natural Sciences, Geography). The construction of sentences and the use of correct scientific terms (English). Use of the main commands of the different software used to construct the flyer (ITC). Quality of the flyer (Mathematics, Physical-chemical, Natural Sciences, Geography, English, ITC).

(See annex: behaviours that might reduce the water consumption_project rubric_portugal.xlsx) – Main Objective sheet

Teacher's notes:

Teachers guide the process of choosing spokespersons (cultural diversity, gender ...). Teachers pray the task of proposing to other personalities / institutions.



19. Task: Flyer dissemination			Session: 3 h
COMPETENCES	Sense of initiative and entrepreneurship Social and civic Communicating in the mother tongue Mathematical, scientific and technological	INTELLIGENCES	Interpersonal Naturalistic Verbal linguistic
GOALS	To improve communicating and writing skills in the mother tongue		

Task description:

Students will have to prepare in the classroom and orally what they will say when the flyer is released. Thus, students will also rehearse this disclosure in the classroom.

Students will identify the appropriate places where we could disseminate the flyer:

After identifying the places, the students will be divided into groups to complete the task. All groups need to participate in the activity.

Teacher's notes:

Appropriate places where the flyer can be released:

- Libraries
- Town hall
- Radio
- TV
- Protected areas
- Environmental organizations

20. Task: Final team planning assessment		Session: 1 h	
COMPETENCES	Social and civic	INTELLIGENCES	Interpersonal
GOALS	Learning to work in groups		

Task description:

Students will self-assess the objectives and responsibilities established in team planning





- See Checklist; 3T TEAM PLANNING_Task2_Portugal.xlsx; 4T-12T-13T-15T-after 14T WHAT I KNOW - WHAT I NEED TO KNOW - WHAT I'VE LEARNT_Task2_Portugal.xlsx
- After 15th Task What Have I Learnt?

Afterwards the students will do a reflection on the things they did well or not.