

Friday's for Future



Escola Calvet d'Estrella
Maria Muñoz i Mariona Sabatés

GeneracióPlurilingüe (GEP)

Year 2
2019-2020



Identification of the GEP project

Title	Fridays for future
Authorship	Maria Muñoz and Mariona Sabatés
School	Escola Calvet d'Estrella
Students' CEFR Level (A1, A2...)	A1
Grade	6th grade
Content area(s)	Natural science
Number of sessions (4, 6 or 9)	6 sessions
Teacher(s) involved	Mariona Sabatés (English teacher), Maria Muñoz (class teacher)
Keywords	energy, sustainability, critical thinking, environment, citizenship, ecology

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/clisi/>



1. OUR PROJECT

Introduction:

The two topics our project revolves around are energy and sustainability. Once finished, the students will be able to link the relationship between energy, its types and sources, the ecological impact they have and the ecologically responsible consumption actions.

Driving question:

How can we stop global warming? (Energy)

Final product:

Students will share their website and videos to a nearby school to explain the impact of our daily actions in the consumption of energy and in the ecological impact. Students will create an informative stall in a square close to our school to inform the neighbours about the impact of our daily actions in the consumption of energy and their ecological impact. During break-time students of the school from 3rd to 5th grades will visit the stall.

2. GOALS

1. **Argue** the difference among forms and sources of energy and their characteristics.

2. HOW DO YOU KNOW STUDENTS ARE MAKING PROGRESS? (assessment criteria)

1.1. **Distinguishes** forms and sources of energy and **tells** their characteristics.

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2. Relate our daily acts to their impact on our environment.	2.1. Justifies orally and in written form the impact of our daily acts on our environment.
3. Create and edit a website.	3.1. Creates a website. 3.2. Designs and records a collaborative video. 3.3. Includes relevant information about the topic.

3. CURRICULUM CONNECTIONS SPECIFIC COMPETENCES AND KEY CONTENTS

Subject-matter curriculum		Foreign language curriculum	
Specific Competences	Key Contents	Specific Competences	Key Contents
<ul style="list-style-type: none"> - C1: Plantejar-se preguntes sobre el medi, utilitzar estratègies de cerca de dades i analitzar resultats per trobar respostes. - C4: Analitzar paisatges i ecosistemes tenint en compte els factors socials i naturals que els configuren, per valorar les actuacions que els afecten. - C10: Dissenyar màquines simples i utilitzar aparells de la vida quotidiana de forma segura i eficient. - C11: Adoptar hàbits sobre 	<ul style="list-style-type: none"> - Biodiversitat i sostenibilitat - Consum responsable - Economia i sostenibilitat - Sistemafísic 	<ul style="list-style-type: none"> - C1. Obtenir informació bàsica i comprendre textos orals, senzills o adaptats, de la vida quotidiana, dels mitjans de comunicació i de l'àmbit escolar. - C2. Planificar i produir textos orals breus i senzills adequats a la situació comunicativa. - C4. Aplicar estratègies per obtenir informació bàsica i comprendre textos escrits senzills o adaptats de la vida quotidiana, dels mitjans de comunicació i de l'àmbit escolar. 	<ul style="list-style-type: none"> - Tipus de comprensió: global, literal i interpretativa. - Estratègies de comprensió oral. - Estratègies de producció oral. - Estratègies d'interacció oral. - Lectura silenciosa. - Tipologia textual. - Estratègies de comprensió escrita. - Característiques dels textos segons el format i el suport. - Cerca i gestió de la consulta lingüística.

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<p>l'adquisició i ús de béns i serveis, amb coneixements científics i socials per esdevenir un consumidor responsable.</p>		<ul style="list-style-type: none"> - C6. Utilitzar eines de consulta per accedir a la comprensió de textos. - C8. Produir textos senzills amb adequació a la situació comunicativa i amb l'ajut de suports. 	<ul style="list-style-type: none"> - Ús de les TAC.
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4. 21st CENTURY COMPETENCES

Collaboration	✓	Information, media and technology	✓
Communication	✓	Leadership & Responsibility	✓
Critical Thinking and Problem Solving	✓	Initiative & Self-direction	✓
Creativity & Innovation	✓	Social & Cross-cultural	✓
Others:			

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More information at: <http://grupsderecerca.uab.cat/cliisi/>



5. KEY COMPETENCES

Communicative, linguistic and audiovisual competence	✓	Digital competence	✓
Mathematical competence	✓	Social and civic competence	✓
Interaction with the physical world competence	✓	Learning to learn competence	✓
Cultural & artistic competence	✓	Personal initiative and entrepreneurship competence	✓

6. CONTENT (Knowledge and Skills)

CONTENT-RELATED KNOWLEDGE	CONTENT-RELATED SKILLS
<ul style="list-style-type: none"> - Types of energy - Sources of energy, (non-)renewable, clean/dirty sources - Uses of electricity - Energetic efficiency 	<ul style="list-style-type: none"> - Analysing the effect of the usage of the different sources of energy. - Organizing and delivering a speech related to energies and ecology.

Template adapted from CLIL-SI 2015.

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7. REFERENCES

<https://worldslargestlesson.globalgoals.org/>
<https://www.youtube.com/watch?v=Q0LBegPWzrg>
<https://www.oxfam.org/en/5-natural-disasters-beg-climate-action>
<https://www.wwf.org.au/what-we-do/climate/causes-of-global-warming#gs.vofoaz>
<https://www.wwf.org.au/what-we-do/climate/climate#gs.vofyed>
<https://www.science-sparks.com/what-is-climate-change/>
<https://kidsagainstclimatechange.co/the-greenhouse-effect-game/>
https://www.eslprintables.com/writing_worksheets/persuasive_writing/Persuasive_Letters_91321/

8. COMMENTS (optional)

We have planned some very deductive activities and we do not know whether these will be too abstract for the kids to follow and complete successfully.

9. ACKNOWLEDGEMENTS (optional)

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Skills: R: reading, S: speaking, L: listening, W: writing, I: Interaction
 Interaction: T-S: teacher-student, S-S: student-student, SG: small groups, WG: whole group, S-Expert, S-World
 Assessment: PA: Peer assessment, SA: Self-assessment, TA: Teacher assessment, AT: Assessment tools

10. UNIT OVERVIEW

Session	Activities	Timing 	Skills 	Interaction 	ICT 	Assessment 
<u>1</u>	Presentation and contextualisation of topic (Global Goals) & driving question	10'	I	S-S		Previous knowledge
	Conversation --> needs to know and questions	25'	I	S-S		
	Reading comic strips to understand ecology-related goals.	15'	R+I	S-S		
	Cooperative mural giving reasons why they think these goals were set.	30'	I+W	S-S	Padlet	Previous knowledge
	Driving question	10'	I	T-S		
<u>2</u>	Self- Assessment: What do I know about Energy?	5'		Ind	Google forms	Self Assessment

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	Storyboard of Energy TYPES OF ENERGY AND WRITING	10' 10'	L+I W	T-S / S-S S-S		
	Interview - Types of energy	45'	R+I	S-S		
	Recap - Types of energy Glossary	10' 10'	L	Ind	Video	
3	Quizlet about renewable and non-renewable & clean and dirty energies	40'	R-W	Ind	Quizlet	CO-ASSESSMENT
	Memory of the types & sources of energy to consolidate the previous activity			S-S		
	Jigsaw reading pieces of news of good energetic practises with graphs and diagrams. Glossary	50'	R-W-S- L-I	S-S	-	-
4	Stand up, hand up, pair up Snowball Fight recap activity	10'	R-W-L- S	WC	-	-
	Think -pair-share to prepare debate “Why are good practices necessary?”	15'	I-W	S-S, S-T	-	-
	Debate on the question “Why are energetic good practices necessary?”	20'	L-S	WC, S-S, T-S	-	-
	Writing of a persuasive text	30'	R-W	Ind	-	SA

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	Survey Monkey Assessment	15'	R	S-S	SurveyMonkey	SA, PA
5	Recap Quiz	15'	R	WG	Kahoot	SA
	Matching objects group making activity to make groups of 3 <i>What are the causes of natural disasters?</i>	30'	R-W-I	SG	-	-
	Dictogloss about global warming	30'	R-W-I	SG	-	-
	How to revert ecological disasters activity	15'	L-I	WG	-	-
6	PROBLEM SOLVING MINI PROJECTS Proposals of sustainable actions in (one per group): CITY SCHOOL HOME TRANSPORT (in-depth inquiry) Check-list	90'	R-W-I	S-S		PA, SS
7	Planning and recording of video Rubric	90'	I-R-W	S-S	laptops, cameras, microphones.	SA, TA

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8	Recording of videos Rubric	90'	I	S-S	laptops, cameras, microphones.	SA, TA
9	Creation of Wix tab on common web page & Canva poster.	90'	I-R-W	S-S	Laptops, Wix, Canva	-
10	Creation of Wix tab on common web page & Canva poster.	90'	I-R-W	S-S	Laptops, Wix, Canva	SA
11	Oral presentation to INS Jonqueres (co-assessment rubric, public audience rubric)	60'	S-I-R	S-public audience	Laptops, Wix, Canva	PA, SA
12	On a Friday (for Future) set a stall on Pi Square and playground. Self-assessment	60'	I	S-public audience	-	

11. SESSION PLANNING

SESSION 1: Let's Start!

Objectives of the session: Introduce the topic and the driving question of the project.

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	<p>Content-obligatory language for the session: opinion, (dis)agree, global goals,</p>					
	<p>Activities <i>include : Name and description; Assessment tool (if any); Material (including language support)</i></p>					
<p>1.1</p>	<p>Presentation and contextualisation of topic (Global Goals) Find my partner linking the icons of Global Goals (linking sentence with the picture); the goals included will be #1/2/3/4/5/6/7/11/12/13/14/15. By this means, they will be joint in pairs and from this point they will have to find the correlative goal to form groups of four. They will be provided with some language support (What number have you got? /What's your number? - I've got number.../ My number is ...)</p> <div data-bbox="156 673 1317 1295" style="border: 1px solid black; padding: 10px;">  </div>	<p>10'</p>	<p>I</p>	<p>S-S</p>		

Template adapted from CLIL-SI 2015.

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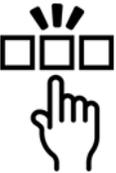


	<div data-bbox="152 108 994 611" style="border: 1px solid black; padding: 10px;">  <div style="display: flex; justify-content: space-around; margin-top: 20px;"> <div style="text-align: center;">  <p>WHAT NUMBER HAVE YOU GOT?</p> <p>WHAT'S YOUR NUMBER?</p> </div> <div style="text-align: center;">  <p>I'VE GOT NUMBER...</p> <p>MY NUMBER IS ...</p> </div> </div> </div>					
1.2	<p>Short contextualisation of the Goals (origin and purpose) by the teacher. Once they are in groups of four, they are given cards with all global goals and students have to sort them out in three or four categories (they need to think of the categories and sort the goals). LANGUAGE SUPPORT</p> <div data-bbox="152 743 902 1297" style="border: 1px solid black; padding: 10px;">  I THINK... IN MY OPINION...   I AGREE...  I DISAGREE...  WE CAN CLASSIFY IN THREE GROUPS... THIS GOAL CAN BE WITH THIS ONE... </div>	25'	I	S-S		

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	<p>Then, each group will present their classification to the rest of the class and say why. LANGUAGE SUPPORT</p> <div data-bbox="159 145 927 632" style="border: 1px solid black; padding: 10px;">  <p>WE CLASSIFY THE GLOBAL GOALS INTO ... GROUPS.</p>  <ol style="list-style-type: none"> 1. THE GROUP ABOUT.... 2. THE GROUP ABOUT.... ...AND... 3. THE GROUP ABOUT... <p>....</p> <p>DO YOU AGREE?</p> </div> <p>After that, the whole class with the guidance of the teacher will agree on a classification.</p>					
1.3	<p>Reading of comic stripes The teacher will tell them that the current project will be focused on one of the categories (Environmental responsibility). Each group of four, is given three comic strips about goals 7/11/13. It will be in pieces to form a puzzle. They have to read and understand the goal.</p>	15'	R+I	s-s		

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GOAL 7: AFFORDABLE AND CLEAN ENERGY
BY: MARGREET DE HEER

7 AFFORDABLE AND CLEAN ENERGY

WE MUST MAKE SURE EVERYONE HAS ACCESS TO CLEAN, RELIABLE ENERGY!

ESPECIALLY FROM RENEWABLE SOURCES!

SUN

WIND

WATER

GEO THERMAL HEAT

WE MUST WORK TOGETHER TO DEVELOP ALTERNATIVE ENERGY TECHNOLOGIES, PROMOTE ENERGY EFFICIENCY AND HELP COUNTRIES EXPAND THEIR ENERGY SYSTEMS IN A SUSTAINABLE WAY!

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>





GOAL 11: SUSTAINABLE CITIES AND COMMUNITIES

BY: MARGREET DE HEER

11 SUSTAINABLE CITIES AND COMMUNITIES



WE MUST ENSURE THAT CITIES AND COMMUNITIES ARE **INCLUSIVE, SAFE, RESILIENT AND SUSTAINABLE!**



EVERYONE MUST HAVE ACCESS TO **QUALITY, SAFE HOUSING AND BASIC SERVICES...**



...WITH **MONITORING** OF WASTE MANAGEMENT AND AIR QUALITY.



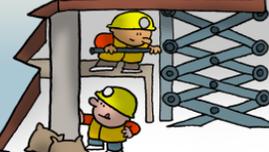
WE MUST **ENGAGE EVERYONE** IN PLANNING FOR IMPROVEMENT OF THEIR CITIES.



WE WILL **PROMOTE APPRECIATION AND PROTECTION** OF THE ENVIRONMENT AND CULTURE.



WE MUST PROVIDE **SAFE, ORGANIZED TRANSPORTATION** THAT IS NOT HARMFUL TO THE ENVIRONMENT.



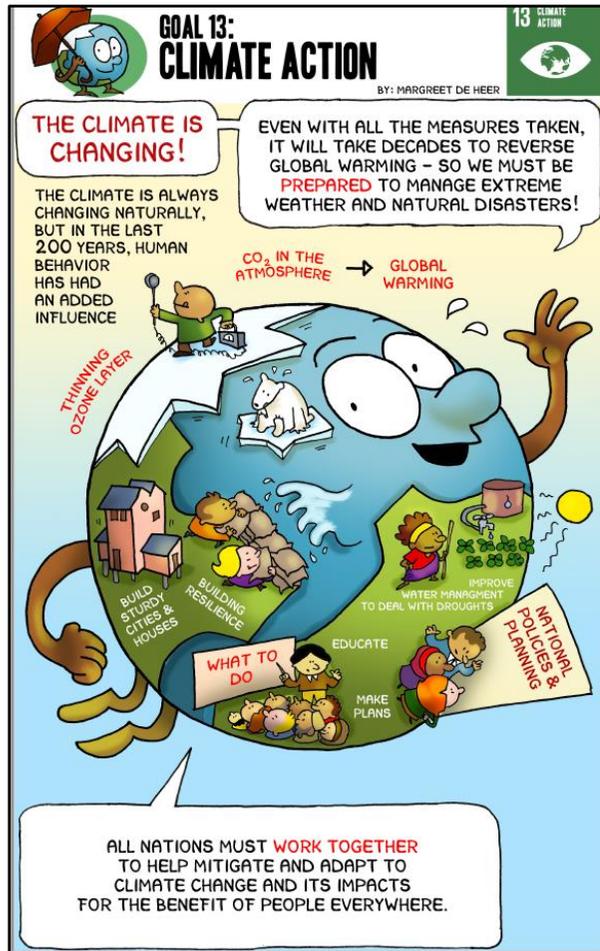
WE MUST MAKE CITIES **RESILIENT TO DISASTER AND ADAPTABLE** TO CLIMATE CHANGE.

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Template adapted from CLIL-SI 2015.

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(Free materials in <https://worldslargestlesson.globalgoals.org/>)

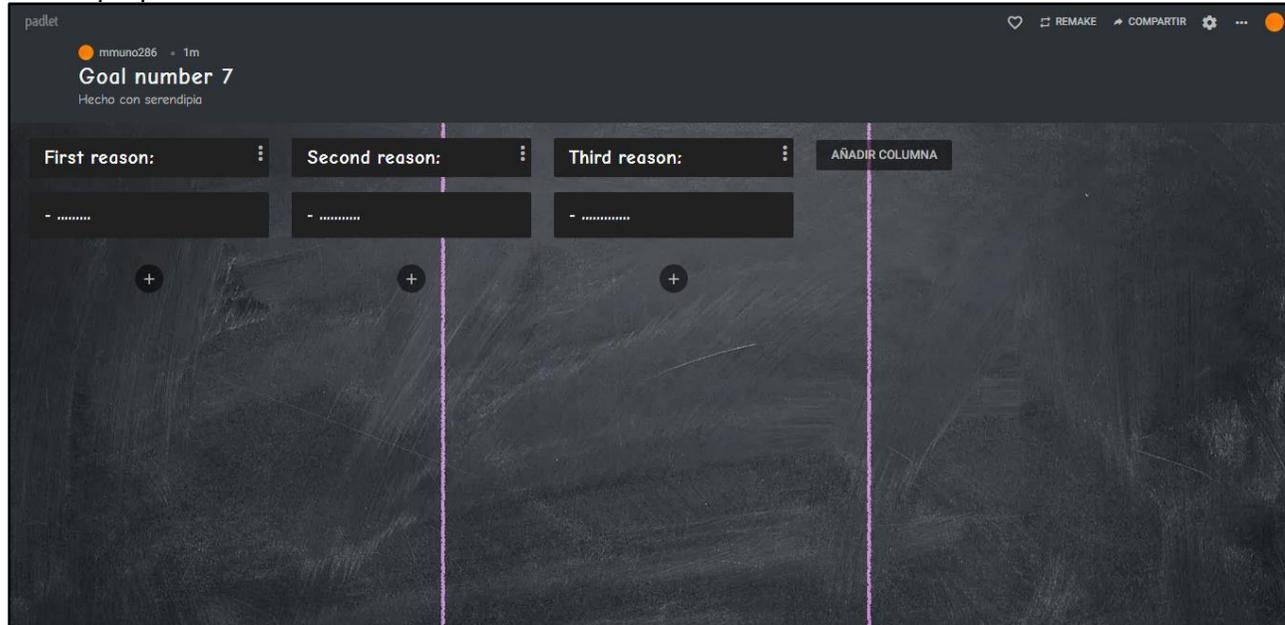
1.4	<p>Grouping strategy</p> <p>While the students are working on the comic the teacher will give stickers to the pupils. They will be used to form groups of experts for the following activity.</p> <p>Cooperative mural giving reasons why they think these goals were set.</p>	30'	I+W	S-S	Padle t	
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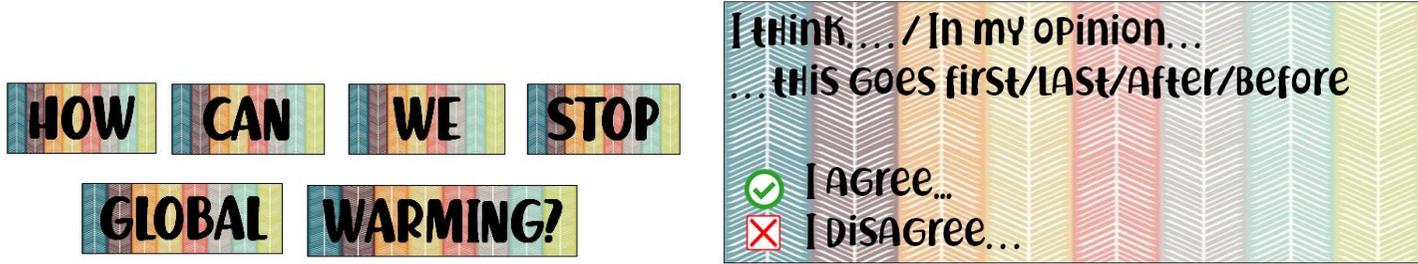
Each of the groups will be doing a brainstorming about the reasons that led the UNO to set the goal assigned to their group. Using laptops they will have to make a list of, at least, 3 ideas. These proposals will be shared on a Padlet.



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1.5	<p>Presentation of the driving question: How can we stop global warming? (Energy) The teacher presents the driving question to the class. It will be cut in individual words and the students, in small groups of three, will need to put them in order (language support: I think this goes first/last/after/before). Once they have the question in order they will share with the whole class.</p>  <p>What do we need to know in order to stop it? - Brainstorming (the teacher rephrases the Needs To Know in English).</p>	10'	I	t-s		

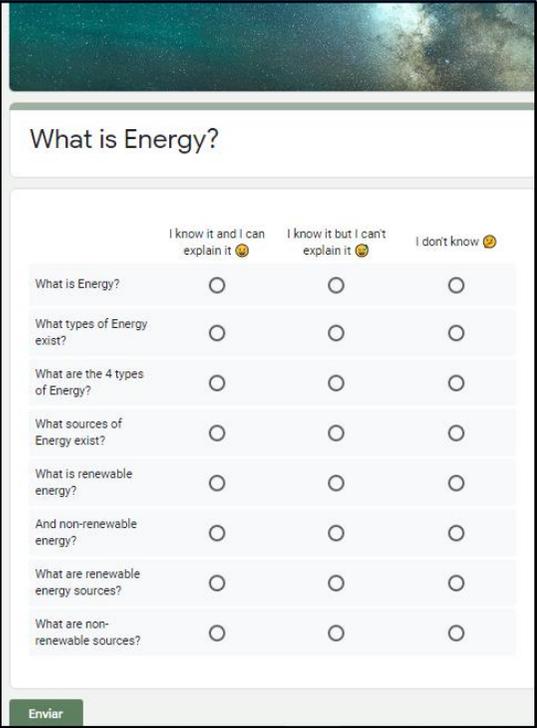
					
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<h2>SESSION 2: What is Energy?</h2>									
<p>Objectives of the session: To know what energy is, what are the different types and sources.</p>									
<p>Content-obligatory language for the session: energy, types (potencial, kinetic), sources (renewable, non-renewable), mechanical energy, thermal energy, electrical energy, chemical energy.</p>									
<p>Activities</p>	<p><i>include: Name and description; Assessment tool (if any); Material (including language support)</i></p>								

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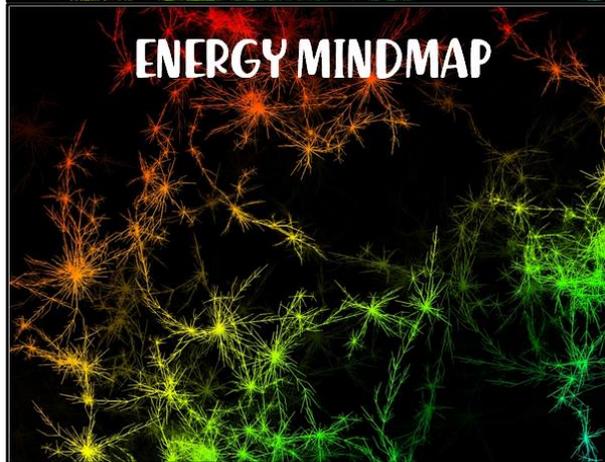
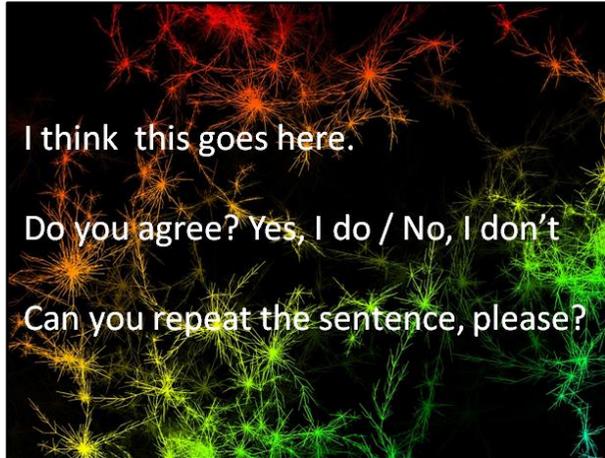


<p>1.1</p>	<p>Self- Assessment: What do I know about Energy? Each student completes a Google Forms about their knowledge of Energy, types, sources... They have to specify if they know and they can explain it, if they know but can't explain it or if they don't know anything about it. https://docs.google.com/forms/d/e/1FAIpQLSelfmNiQb5XXatR-qxYeKk1Jvsojp6PCM5Rf4B5TMXhr4JdAQ/viewform</p> 	<p>5'</p>			<p>Google Forms</p>	<p>S-A</p>
<p>1.2</p>	<p>Storyboard of Energy Make groups of three using ClassDojo. Each group has to create a mindmap of the types and sources of energy. The teacher will read a text describing energy and the different types out loud. Meanwhile, the students have to construct a mind-map using some labels the teacher will provide them with. The teacher will read three times (once to understand the topic, twice to create the mindmap and third to make sure about it). While listening to the text, the students might need to interact and negotiate where each label should be placed so we will provide them some language support:</p>	<p>10'</p>	<p>L+I</p>	<p>t-s S-S</p>		<p>TA</p>

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ENERGY MINDMAP

Energy is the ability to do work. Energy can neither be destroyed nor created, but it transform from one form of energy to another. Energy can be found in many different forms.

The main types of energy are kinetic and potential energy. Kinetic energy is the energy that is in motion. Potential energy is the energy stored inside an object.

Some types of potential and kinetic energy are: Mechanical energy, electrical energy, chemical energy and thermal energy.

There are different sources of energy. We can classify on renewable energy and non-renewable energy.

A source of energy is considered renewable if it comes from natural sources and it can be used over and over again. Examples are solar (from the sun), wind, hydropower (from water), geothermal (from the earth) and biomass (from organic materials).

Non-renewable energy sources are these natural sources that once is used, they are gone forever, they are finished. Types of non-renewable energy are natural gas, nuclear, coal and oil.

ENERGY	NON-RENEWABLE	SOLAR	
TYPES	MECHANICAL	WIND	
SOURCES	ELECTRICAL	GEOTHERMAL	
POTENCIAL	CHEMICAL	BIOMASS	
KINETIC	THERMAL	NUCLEAR	OIL
RENEWABLE	HYDROPOWER	GAS	COAL

1.3	<p>Writing Each student will have the following worksheet in which, in the same groups of three, they will have to re-write the description about energy.</p>	10'	W	S-S		
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	<div style="border: 1px solid black; padding: 10px; text-align: center;"> <h2 style="margin: 0;">ENERGY</h2> <p>Energy is _____</p> <p>It can be _____ or _____</p> <p>There are _____ types _____</p> <p>_____</p> <p>It is obtained from _____ It can be _____ or _____</p> <p>_____</p> <p>The _____ are _____</p> <p>_____</p> <p>And the _____ are _____</p> <p>_____</p> </div>					
1.4	<p>Interview - Types of energy</p> <p>Make groups of 5 using sticks (find the same colour)</p> <p>Each student has a text about one type of energy and one student is the interviewer (they have a template to complete with the information of the rest of the group). Each student has to read and understand his text (becoming an expert on the issue) in order to answer the questions that the interviewer asks. The interviewers will be students with a good level and strategies to lead the group with the experts. While the experts try to understand his text, the interviewers will create the questions. In his template they have a model and every text has language support.</p>	45'	R+I	S-S		

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Mechanical energy



Mechanical energy is potential and kinetic energy together. Mechanical energy is movement. It is usually created by a machine.

If an object has mechanical energy, then it does work. For example, to lift a box, a person uses the chemical energy inside of them, it transforms into kinetic energy to lift the box. This is how, potential energy and kinetic energy are transformed to mechanical energy.

Examples:

- Wind
- Running
- Paper plane flying



machine



to lift a box



transform



flying

Chemical energy



Chemical energy is the energy that is in chemicals. This energy is potential energy. The chemical energy transforms a substance into a new substance.

For example, in food, energy is chemical. During digestion, the molecules are transformed into new substances. The body uses these new substances.

Examples:

- Gasoline in a car
- Food



transform



digestion



molecules

Electrical energy



Electrical energy is generated when electrons move from one atom to other atom.

Electrical energy can be transferred into different types of energy. You can see this when you switch on the light.

Examples:

- Electric circuit
- Electric car
- Television



electrons

atom



switch on



light

Thermal energy



Thermal energy is the movement of molecules. When the thermal energy of an object increases, the molecules move faster. If there is a change in thermal energy, is a phase change (ice, water, water vapour).

Examples:

- Adding ice to water
- Light bulb
- Touching a hot plate



molecules



increases



faster



phase change

	<div style="border: 1px solid black; padding: 10px;"> <p style="text-align: center;">TYPES OF ENERGY</p> <p style="text-align: center; font-size: small;">Ask your teammates questions to complete the grid.</p> <table border="1" style="width: 100%; border-collapse: collapse;"> <thead> <tr> <th style="width: 25%;">Type of energy <small>QUESTION</small></th> <th style="width: 25%;">Definition <small>QUESTION</small></th> <th style="width: 25%;">Examples <small>QUESTION</small></th> <th style="width: 25%;">Picture <small>QUESTION</small></th> </tr> </thead> <tbody> <tr> <td></td> <td>_____ energy is _____ _____ _____</td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td>Some examples of _____ energy are: _____ _____</td> <td></td> </tr> <tr> <td>Chemical energy</td> <td></td> <td></td> <td></td> </tr> <tr> <td></td> <td></td> <td></td> <td style="text-align: center;"></td> </tr> </tbody> </table> </div>	Type of energy <small>QUESTION</small>	Definition <small>QUESTION</small>	Examples <small>QUESTION</small>	Picture <small>QUESTION</small>		_____ energy is _____ _____ _____					Some examples of _____ energy are: _____ _____		Chemical energy												
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1.5	<p>Recap - Types of energy</p> <p>Watch the video to consolidate the previous activity. https://www.youtube.com/watch?v=Q0LBegPWzrg</p>	10'	L		Video																					
1.6	<p>Glossary</p> <p>Each student has time to complete their glossary with the vocabulary studied during the session. They are familiar with the activity.</p>	10'		ind																						

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Content-obligatory language for the session: stance, arguments, opinion, (dis)agree.

Activities

include: Name and description; Assessment tool (if any); Material (including language support)



Stand up, hand up, pair up

To carry out this grouping dynamic all students need to stand when the teacher tells them to do so and put a hand up in the air. Then, they just have to high five with one classmate near themselves. Now, they are already paired up with someone else and just need to wait for the teacher to give further instructions.

Snowball Fight recap activity

On slips of recycled paper each pair writes a question related to the content worked on previous lessons with the help of a presentation with some language support and ball it up.

1.1



10'

R-
W-
L-S

WC

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



Then, on the count of three, all paper snowballs are thrown around the class. Each student picks up one question from the ground and, in turns, reads it out loud. Students can choose to answer the question or simply read it out for someone else to answer.

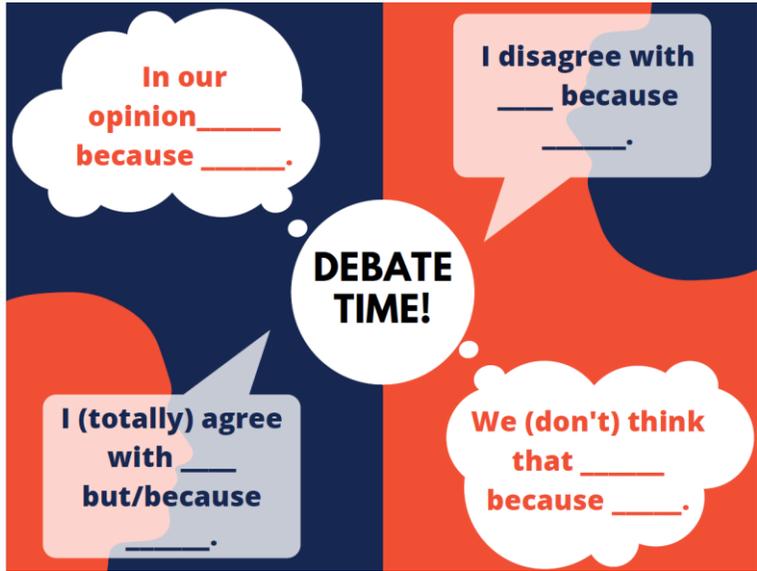


The next slide of the presentation with the language support includes some extra help with examples of how to answer the questions posed on the slips of paper.

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



<p>1.2</p>	<p>Think -pair-share to prepare debate “Why are good practices necessary?” It is a strategy to provide students with enough time to think and form an opinion on a certain topic. It is divided in three steps. In the first step, the “Think step”, all students are presented the question/s to think about individually, depending on the group or question the time allowed can be shorter or longer. In this case it would be around a minute. For the “Pair step”, the students need to pair up. In this case each student pairs up with the person sitting next to them. In this phase, the students are encouraged to share what they have just thought about with their partners to know other points of view, expand or even change their opinion on the subject discussed. The final stage, the “Share stage”, consists of sharing the points of view of each of the pairs with the rest of the group, hence, expanding everyone’s opinion and allowing a deeper understanding on the matter in hand. After putting their thoughts in common with their partners, the students will write the agreed arguments on post-its and stick them on their desks awaiting for the teacher to tell them what to do next (see next activity). As a way to help students interact they would be re-using the language support provided in session 1 activity 1.5.</p>	<p>15'</p>	<p>I-W</p>	<p>S-S T-S</p>		
<p>1.3</p>	<p>Debate on the question “Why are energetic good practices necessary?” After giving the students time to form their opinion and arguments, they will be presented with some language support cards to help them interact during the debate.</p> 	<p>20'</p>	<p>L-S</p>	<p>WC S-S T-S</p>		

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Besides this, the students will count with the usual posters displayed on the classroom walls with oral interaction language support.



Once the language support is clear, the debate starts.

As the debate develops the students will have to classify the arguments they previously wrote on post-its into two columns (*I agree* if they still think their argument is valid or *I disagree* if they changed their minds).

The teacher will write down the solid arguments and conclusions they expose during the debate to display them underneath the sign with the question to create a poster.

1.4	<p>Writing a persuasive text</p> <p>With the help of the conclusions drawn during the debate and together with the arguments they previously wrote and are still in the “I agree” column, the students will have to write a short persuasive text. To do so, they will count with some language support and a ready-to-use writing template.</p>	30'	R-W	Ind		SA TA
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Persuasive text:
Energetic good practises are (un)necessary

<p>Introduction Explanation of topic</p>	<p>STARTING SENTENCES When it comes to the need of energetic good practises, I think they are (necessary/unnecessary, essential/futile).</p>
<p>Body One paragraph per argument: Say what your argument is and justify it.</p>	<p>INTRODUCING ARGUMENTS... Firstly, ... Secondly ... Then, ... Finally, ...</p> <p>...USING PERSUASIVE SENTENCES I think it is very important to... I think it would be a really good idea if... I hope you will agree to... I recommend you to ... because...</p> <p>LINKING IDEAS SUPPORTING YOUR ARGUMENTS But Because Therefore Also However</p>
<p>Conclusions Repetition of topic and summary of arguments</p>	<p>FINISHING UP Regarding the necessity of energetic good practises, I think it is important to (enumerate your arguments)... because... (Powerful ending conclusion)</p>

Persuasive text

<i>Title</i>	
<i>Introduction</i> Explanation of topic.	
<i>Body</i> One para-graph per argument: say what your argument is and justify it.	
<i>Conclusions</i> Repetition of topic and summary of arguments.	

Remember! Once corrected, you will have to use this draft writing to write the final version of your persuasive text on a white piece of paper.

The students will also have a check-list to be able to self-assess whether their production is correct or not.

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



Persuasive text CHECK-LIST

			
TITLE	Does it have a title?		
	Does the title match the content of the text?		
INTRODUCTION	Do you explain your <i>*stance</i> on the first paragraph?		
BODY	Is there a paragraph for each argument?		
	Does each paragraph start by a word <i>**like firstly, secondly, then, finally...?</i>		
	Are the arguments justified?		
	Do you use words like <i>but, because, also, however or therefore?</i>		
CONCLUSION	Do you repeat your stance?		
	Do you enumerate all your arguments?		
	Do you finish with a <i>***powerful conclusion?</i>		

stance*: point of view. *like*: similar to. ****powerful*: potent.

1.5

Assessment questionnaire

For this activity the students pick up the laptop with their list number, which they are already used to do, and enter a link in their GoogleClassroom space. From this point, they are given time to answer individually to the questions on the assessment *SurveyMonkey* questionnaire.

15'

R

S-S

Survey
Monkey

SA
PA

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



<p>Session 4 COASSESSMENT & SELF-ASSESSMENT</p> <p>* 1. Did you and your partner have a lot of arguments on your post-its before the debate?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes, we did. We had three or more arguments. <input type="radio"/> No, we didn't. We only had one or two arguments. <p>* 2. Did you change your mind for any of your arguments during the debate?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes, for one argument. <input type="radio"/> Yes, for more than one argument. <input type="radio"/> No, I didn't change my mind. <p>* 3. Did your stance change during the debate?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes, it did. <input type="radio"/> No, it didn't. <p>* 4. Did the debate help you have some ideas for your persuasive text?</p> <ul style="list-style-type: none"> <input type="radio"/> Yes, it did. <input type="radio"/> No, it didn't. 						
<p>https://es.surveymonkey.com/r/KX86XSR</p>						

<h2>SESSION 5: A change needs to be made!</h2>
<p>Objectives of the session: Be able to establish the relationship between natural disasters and global warming and its causes. Work and interact in cooperative groups.</p>
<p>Content-obligatory language for the session: extreme weather, greenhouses gases, greenhouse effect, global warming, natural disasters, alternatives, drought, flood, wildfire, meltdown, impact on, cause and effect.</p>

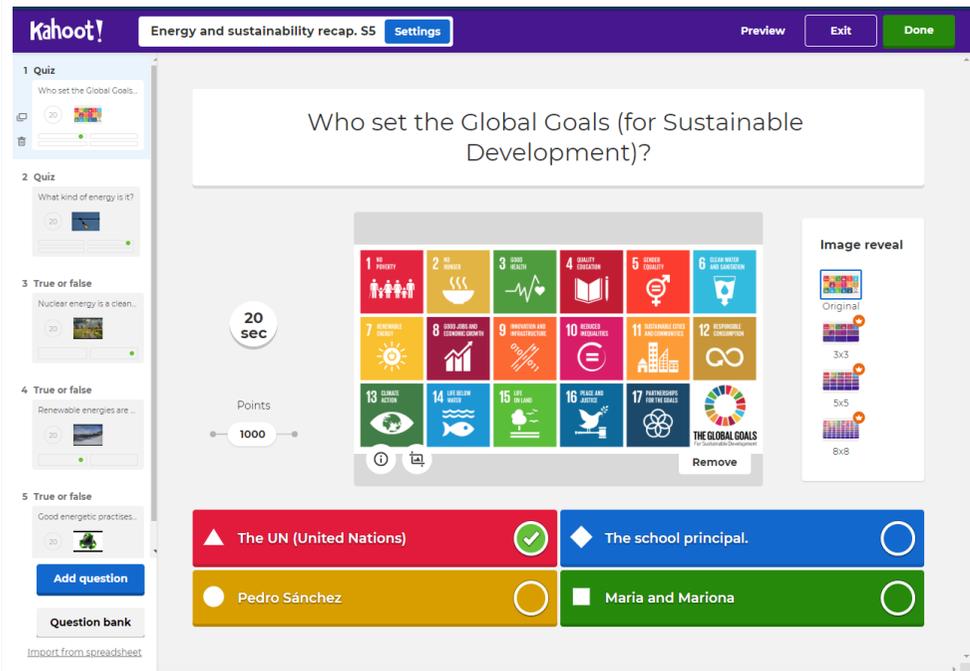
Template adapted from CLIL-SI 2015.

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	<p>Activities</p> <p><i>include: Name and description; Assessment tool (if any); Material (including language support)</i></p>					
1.1	<p>Recap Quiz</p> <p>For this recap activity the pupils use their assigned laptops and answer the quiz individually. They are used to using Kahoot and their Internet browsers have a bookmark leading to the Kahoot webpage to introduce the PIN which allows students to join the quiz. As soon as everyone's laptop is ready the teacher shows the PIN on the Interactive board and each student joins the quiz using their real names. No nicknames are allowed since it is also a way for the teacher to know who answered, or not, and what he or she answered.</p>	15'	R	WC	Kahoot	SA



	 <p>https://create.kahoot.it/share/energy-and-sustainability-recap-s5/b7bed151-a174-4558-b689-7676f298ad03</p>					
<p>1.2</p>	<p>Matching objects group making activity to make groups of 3 What are the causes of natural disasters? Each group is given ONE striking image related to a specific disaster caused by climate change and global warming and a short description of what happened behind the image (Australian massive wildfires, the Arctic meltdown, South Asia floods, East Africa drought). In order to be able to make smaller groups each image will be given to two groups. Together with the picture and explanation of the disaster, each group is given a paper with a diagram with some blank spaces depicting the process of cause-effect for the natural disaster assigned to each group. The only change in the diagrams will be the last part in which the specific disaster is shown. Students will try to deduce which are the immediate factors that led to that situation (lack of rain, higher temperature, drier land, warmer atmosphere condensing more water and evaporation more water...).</p>	<p>30'</p>	<p>R- W-I</p>	<p>SG</p>	<p>-</p>	<p>-</p>

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



 <p>East Africa drought</p>	 <p>South Asia floods</p>	 <p>ARCTIC ICE MELTDOWN</p>	 <p>Australian massive wildfires</p>					
<p>East Africa drought</p> <p>The possibility of drought in the horn of Africa has doubled in the past years. Very serious droughts happened there in 2011, 2017 and 2019. 15 million of people have acute food and water shortages in Ethiopia, Kenya and Somalia. As a result, they have to leave their homes.</p>   <p>x2</p>  <p>drought horn of Africa doubled shortage</p>	<p>South Asia floods</p> <p>In the past two years, floods and landslides in India, Nepal and Bangladesh killed and made 12 million people leave their homes. The cause of the landslides and floods were exceptionally heavy rain during monsoon season.</p>     <p>flood India, Nepal and Bangladesh landslides monsoon</p>	<p>ARCTIC ICE MELTDOWN</p> <p>In recent decades, sea ice in the Arctic Ocean is melting faster than it re-freezes in winter. The natural habitat of many animals, including polar bears, seals and penguins, is destroyed because of Arctic ice meltdown.</p>     <p>Arctic Ocean melting freeze seals</p>	<p>Australian massive wildfires</p> <p>Since September 2019, the wildfires burned more than 10 million hectares, killed 28 people and destroyed thousands of homes. More than 1,000,000,000 animals were killed, and some species and ecosystems will never recover.</p>     <p>wildfire burn hectares recover</p>					

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



<p>What are the causes of natural disasters?</p> <p>Cause of immediate causes Immediate causes</p> <p>South Asia floods</p>	<p>What are the causes of natural disasters?</p> <p>Cause of immediate causes Immediate causes</p> <p>East Africa drought</p>						
<p>What are the causes of natural disasters?</p> <p>Cause of immediate causes Immediate causes</p> <p>ARCTIC ICE MELTDOWN</p>	<p>What are the causes of natural disasters?</p> <p>Cause of immediate causes Immediate causes</p> <p>Australian massive wildfire</p>						
<p>The students will have roles to carry out during the activity and will be wearing some tags reminding them of the function of each one of the roles.</p>							

Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



	<table border="1"> <tr> <td data-bbox="145 90 533 491"> <p>REGISTER</p> </td> <td data-bbox="533 90 907 491"> <p>MATERIAL MANAGER</p> </td> <td data-bbox="907 90 1281 491"> <p>SPOKESPERSON</p> </td> <td data-bbox="1281 90 1657 491"> <p>EXECUTOR</p> </td> </tr> <tr> <td data-bbox="145 491 533 882"> <ul style="list-style-type: none"> • <u>Takes note</u> of important information. • <u>Checks everyone</u> completed their activities.  </td> <td data-bbox="533 491 907 882"> <ul style="list-style-type: none"> • <u>Collects</u> and returns material for the group. • <u>Organizes</u> clean-up.  </td> <td data-bbox="907 491 1281 882"> <ul style="list-style-type: none"> • <u>Talks</u> with the teacher. • <u>Asks</u> doubts. • <u>Explains</u> work to teacher and classmates.  </td> <td data-bbox="1281 491 1657 882"> <ul style="list-style-type: none"> • <u>Performs</u> experiments and <u>manipulates</u> tools. • <u>Controls</u> time.  </td> </tr> </table>	<p>REGISTER</p>	<p>MATERIAL MANAGER</p>	<p>SPOKESPERSON</p>	<p>EXECUTOR</p>	<ul style="list-style-type: none"> • <u>Takes note</u> of important information. • <u>Checks everyone</u> completed their activities. 	<ul style="list-style-type: none"> • <u>Collects</u> and returns material for the group. • <u>Organizes</u> clean-up. 	<ul style="list-style-type: none"> • <u>Talks</u> with the teacher. • <u>Asks</u> doubts. • <u>Explains</u> work to teacher and classmates. 	<ul style="list-style-type: none"> • <u>Performs</u> experiments and <u>manipulates</u> tools. • <u>Controls</u> time. 					
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<p>1.3</p>	<p>Dictogloss about global warming In pairs and as the students listen to a narration about the causes and effects of global warming, they will have to locate on a poster some images depicting what they listen to. Once finished, the teacher reads it again so the students can check and correct, if necessary, the labels they just located with the whole text in mind.</p>	<p>15'</p>	<p>L-I</p>	<p>WG</p>	<p>-</p>	<p>-</p>								

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Teacher's narration:



Template adapted from CLIL-SI 2015.

More information at: <http://grupsderecerca.uab.cat/cliisi/>



	<h2 style="text-align: center;">Global Warming dictogloss</h2> <p>Global Warming is the process of our planet heating up. The Earth's temperature has increased between 0.6 to 0.9°C in the past 100 years.</p> <p>It happens because too much of some specific gases are produced and trapped in the atmosphere. These gases don't let the hot radiation of the sun escape back into space which reflects back to the ground. This radiation warms up all the planet. All this process is also called The Greenhouse Effect.</p> <p>These gases always existed in the atmosphere but now humans produce too much of these gases. Some of the origins of this excessive gas production are the methane produced by animals, like cows, we breed to obtain meat; the burning of fossil fuels from industry and transport; the use of dirty sources of energy and the burning of human waste.</p> <p>1°C doesn't look like a lot of change but is it. It causes the ice in the poles to melt. This raises the sea level and destroys the habitat of polar bears and penguins. Also, because the water in the oceans is warmer it expands and covers more surface provoking more floods in coastal areas. Finally, the bigger quantity of water and the warmer weather conditions cause the climate of the whole world to change and we all experience more extreme weather conditions like flooding, droughts, violent storms...</p> <p>Our life and cities are adapted to the climate we live in. If we don't fight global warming, we will find it very difficult to adapt our cities and lives to the changing climate.</p> <p>Language support is reused from session 1, activity 1.5.</p>					
1.4	<p>How to revert ecological disasters activity</p> <p>Having understood the causes and effects of global warming they will have to identify its link with the disasters in activity 2, what needs to change and which actions can be taken in order to achieve these changes.</p> <p>One paper- one pen</p> <p>In groups of four and in turns, the students will be writing ideas on how to revert the situations in activity 2.</p> <p>They choose two ideas and then make a poster (by hand) to share them with their classmates.</p> <p>Once most of the groups have run out of ideas (about 5 minutes), each group will choose two ideas to depict in a poster so these can be shared with the rest of the class.</p>	30'	I-W	SG	-	-



SELF-ASSESSMENT CHECKLIST

CLIL-PBL Project - Teaching materials	<input checked="" type="checkbox"/> <input type="checkbox"/>
The teaching materials are visually attractive and well-organized .	Yes
The teaching materials are self-explanatory and ready-to-use .	Yes
All activities and teaching materials are original and created by the course participant.	Yes
Any resource in any format (including videos, images, texts from the Internet), that is not original, is respectful of copyright and its sources are cited .	Yes
Students are presented with multimodal and varied input (spoken, written, visual, hands-on...).	Yes
Input is presented at the right cognitive level .	Yes
Input is presented at the right language level .	Yes
Students are helped in some way to understand and process the input presented .	Yes
Visuals are used to support comprehension.	Yes

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Students are presented with good questions (explicit, implicit and referential) that help them process input and that challenge them not only to understand, but to think, create...	Yes
There are opportunities for significant linguistic output (the students produce communicative “products”, speak, write, interact...).	Yes
Support is provided to help students read, write, speak and interact.	Yes
A variety of collaborative and cooperative learning strategies are used throughout the sessions.	Yes
Activities facilitate inquiry and reflection and promote the role of the teacher as a facilitator/coach.	Yes
Task instructions are short, concise, clear and comprehensible to the students. Activities are written using an appropriate level of language .	Yes
The teaching materials are written in accurate English . There are <u>no mistakes at all</u> .	Yes

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