FACULTAD DE EDUCACIÓN Y TRABAJO SOCIAL GRADO EN EDUCACIÓN PRIMARIA- MENCIÓN LENGUA EXTRANJERA

# UNIDAD DIDÁCTICA "Biosphere and ecosystems"

# TRABAJO DE FIN DE GRADO

"La importancia de la motivación en la

enseñanza bilingüe: el profesorado como

elemento clave"



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This Didactic Unit is based on the Decree 26/2016 of Castilla y León of July 21 (BOCYL) 25 July 2016), which establishes the curriculum and regulates the implementation, evaluation and development of Primary Education in Castilla y León.

#### CONTEXT

The CEIP Miguel Delibes is a line three educational center that provides Early Childhood and Primary Education, located in the neighborhood of La Victoria, between the Canal de Castilla and the Burgos highway.

The Victoria neighborhood is an area inhabited by young families with one or two children and with a medium cultural and economic level. In most cases, both the father and the mother work. Although, in recent years, the incidence of unemployment and sporadic work is notable.

The school is made up of three buildings: two dedicated to Early Childhood Education and the central building dedicated to Primary Education. This building has 18 active classrooms, a religion room, another music room, a computer room, a gym, a library, two dining rooms and two well-equipped teachers' rooms. Likewise, the center has a large playground divided into zones, a school garden and several natural spaces.

In addition, it should be noted that this center has been teaching a bilingual education program (British Council) since the 1996/1997 academic year. This is an integrated curriculum, through which students not only acquire the knowledge and skills exposed in the Spanish curriculum but also simultaneously obtain knowledge of the English environment and culture. The center has five language advisors who are usually accompanied during the lessons by an English language specialist. The results of this program are reflected in the spectacular mastery of the foreign language of the majority of the center's students.

### **METHODOLOGY**

The Didactic Unit that is introduced in this Final Degree Project is called Biosphere and ecosystems. It is a proposal consisting of seven completed sessions and 3 sessions (30 minutes) designed for the 5th grade course of Primary Education.

The 5th grade class, where the Didactic Unit will be implemented, is made up of 25 students, none of whom have special needs that require some type of adaptation in the proposal. In general, they are a hardworking group, somewhat restless and with a remarkable level of foreign language for their age. However, some students have more difficulties in the language than the rest. In consideration, extra help should be given to such students through the use of repetition, visual aids, individualized attention and body gestures.

These students receive Natural Science classes for two and a half hours per week. Each session consists of 60 or 30 minutes. It is worth mentioning that the 30-minute sessions will not be used to expand content, but to review what was studied during the week and learn about the knowledge acquired by students through Plickers or Kahoot.

In accordance with the theoretical framework of the Final Degree Project, this Didactic Unit's main objective is to motivate students and encourage their interest in the study of the English language and the natural sciences syllabus, in this case, the biosphere and ecosystems.

To achieve this objective, this proposal includes a series of motivating activities that arouse curiosity and encourage student participation, presented in a creative and attractive way. These types of activities positively affect the student's emotions and feelings related to the teaching-learning process. Through motivation, the learner's confidence and potential are heightened, increasing the chance of success at the end of learning process.

For the design of these activities, this proposal is based on the methodological approach of task-based learning. Therefore, all the activities proposed in this Didactic Unit are designed with the purpose that the students manage to carry out the final task successfully. In addition, these activities will encourage the exchange of meaningful messages among students. To do this, collaborative learning becomes one of the foundations of this proposal. A large part of the activities of the Didactic Unit will require the collaboration and sharing of knowledge and skills of our students to achieve the proposed goals.

At the same time, another leading learning technique in this proposal is gamification. Many of the activities of the Didactic Unit will be presented to the students in the form of interactive games. The dynamics of the game is presented as one more attraction for the student. These games will be played both virtually, using the digital panel and laptops, as well as in the classroom using specific materials such as flashcards, posters or index cards; among others.

For this methodology to work, the role of the teacher is essential. On the one hand, it must generate a suitable and favorable environment, where students express themselves in the foreign language without feeling inhibited or overwhelmed by it. On the other hand, it will act as a facilitator and guide throughout the process. Among his main tasks is directing the games and tasks, making sure that all the proposed objectives are met. In this way, students become protagonists of their learning

# **EVALUATION PROCEDURE**

For the evaluation of this unit, I will use formative assessment. This means that the evaluation is continuous and constant. In this way, we will assess the progress of our students from the beginning of the unit to the end of it. The teacher will take into account their attitude, interest showed in class, level of participation during the activities and effort showed. The instrument that I will use to collect information on these attitudinal aspects is the systematic observation.

On the other hand, the activity with the greatest weight in the evaluation is the final task, "The ecosystem's Theatre", this is because in this task the students will demonstrate their knowledge related with each content of the unit. To evaluate this task, I will use the following rubric:

	Excellent	Good	Improvable	Bad
	The play	The play	The play	The play
Creativity	represented has	represented has	represented is	represented
	a creative and	got creative	not very	doesn't have a
	unique story.	details and a	creative, but	creative story
		good ending.	the story shows	at all.
			some	
			imagination	
			and effort.	
	During the	During the	During the	During the
	play, the	play, the	play, students	play, the
	students used	students used	used one or two	students didn't
Specific	specific	specific	words from the	use specific
vocabulary	vocabulary	vocabulary	vocabulary of	vocabulary
	related with the	related with the	the unit.	related with the
	unit several	unit enough		unit.
	times.	times.		
	The scenery	The scenery	We can see	We cannot

	represents the	represents the	some	recognize the
	characteristics	characteristics	characteristics	characteristics
	of their	of their	of the	of the
Scenery and	ecosystem in a	ecosystem.	ecosystem	ecosystem or
disguises	perfect way.	There is a	represented in	the characters
	The disguises	visible effort	the scenery.	in the scenery
	are a perfect	and a good		and disguises
	representation	result in the		of the play.
	of each	disguises they		
	character.	made.		
	The	The play is	They gave	The
	information	related to what	some correct	information
	given during	they learnt in	information	given during
Acquired	the play about	class; it is	about the food	the play about
knowledge	their	notable that	chain or the	their
	ecosystem and	they have	ecosystems,	ecosystem and
	the food chain	acquired the	but the made	the food chain
	fits perfectly	knowledge.	some mistakes.	shows that they
	with what was			didn't
	learned.			understand the
				contents of the
				unit.
	At the end of			
Acquired	the play, they	the play, they	the play, the	the play, they
habits of	are able to give	mentioned two	students were	didn't give any
respect and	three or even	ideas to protect	able to give one	ideas to protect
care	more ideas to	biodiversity.	idea to protect	biodiversity.
	protect		biodiversity.	
	biodiversity.			

Also, as this Final Degree Project aims to increase motivation in our pupils, a follow-up has been carried out during the sessions through the so-called exit tickets. This instrument

has been very useful to collect information about the feelings, emotions, level of interest, understanding and acquisition of content from our students. That is why, delivering these tickets will also have its weight when evaluating the students.

Finally, I will take into account the "Kahoot" and "Plickers" questionnaires. Half-hour sessions have been used to track the students progress. Through these questionnaires we have been able to observe student's progress and knowledge acquisition. As I said before, this is a formative kind of assessment.

The percentages applied to each activity/ instrument are as follows:

Instrument/Activity	Percentage
Systematic observation (attitudinal	20%
factors)	
Final task's rubric (The Ecosystem's	60%
Theatre)	
Exit tickets	10%
Kahoot and Plickers	10%

# **GENERAL CHART**

STAGE	PRIMARY EDUCATION				
GRADE		5 <sup>TH</sup> GRADE			
TIMING	7 SESSIONS (60 minutes) and 3 SESSIONS (30 minutes) (4 Weeks)				
GENERAL	OBJECTIVES	CONTENTS	ACTIVITIES		
<ul> <li>The students show</li> <li>Participate in in practice values scientific thin entrepreneurs one's own responsibility collective expleters and components especially the community, organization, interdepender searching explesionary solutions and defense, protee ecological ball use of er promoting values of er prom</li></ul>	uld be able to work groups putting alues and attitudes of nking, promoting the hip spirit, developing sensitivity and in individual and periences. recognize the main of the ecosystems, ose of our autonomous analyzing its characteristics and nt relationships; planations, proposing a acquiring habits of ection, recovery of the lance and responsible hergy sources, by alues of commitment, sustainability of the aformation and on technologies to pation as a learning	<ul> <li>The relationships between living beings. Food chains. Species, populations, communities and ecosystems. Invasive species and protected species.</li> <li>Habits of respect and care towards living beings. The conservation of the environment. Pollution and regeneration factors.</li> </ul>	<ul> <li>"Word cloud"</li> <li>"Secret password "</li> <li>"5 levels of organizati on in the biosphere "</li> <li>"Biospher e drawing"</li> <li>"Biospher e</li> <li>"Presentin g our drawings"</li> <li>"Presentin g our drawings"</li> <li>"Populati on or communit y"</li> <li>"Exit ticket"</li> </ul>		

tool to share knowledge and assess		out"
their contribution to improving the		
living conditions of all people, as	-	"Jigsaw
well as prevent risk situations		Terrestrial
arising from its use.		ecosystem
		s"
	_	"Heads
		up!"
	-	"Exit
		ticket"
	-	"Kahoot"
	_	"Aquatic
		1 qualle

ASSESMENT CRITERIA		Pictionary
Pupils will be able to		"
- Know the characteristics and components of an ecosystem understanding		
the importance of the physical environment (sun, water, air, ground and	-	"Act out"
climate) and its relationship with living beings, identifying the causes of	-	"True or
extinction of some species.		false"
- Show interest in the study and observation of biodiversity and habits of		
respect and care towards living beings.	-	"Guess
		the
		ecosystem
	-	"Exit
		ticket"
		<i></i>
	-	"Solve the
		puzzle"
	-	"Food
		chain's
		creators"
	-	"Join the
		food
		chain"
	-	"Did
		someone
		say
		crossword
		?"
	-	"Exit
		ticket"

-	"Plickers"
-	"See- think- wonder"
-	"A whale's story"
-	"The earth is in good hands"
-	"Exit ticket"
-	"Quote of the day"
-	"Kaboom "
-	"Exit ticket"
-	"The Ecosyste ms Theatre instructio n"
-	"Say goodbye to nerves"

-	"The
	Ecosyste
	ms
	Theatre"
-	"I'm an
	expert in
	ecosystem
	s"

#### **KEY COMPETENCES**

- Multilingual competence.
- Literacy.
- Competence in mathematics, science, technologies and engineering.
- Digital competence.
- Personal, social and learning to learn competence.
- Competence in social awareness and citizenship.

#### ATTENTION TO DIVERSITY

In this case, there is no important attention to diversity because all the students have similar levels. However, there are some pupils who have more difficulties than others and need you to keep a special eye on them.

To help them acquire the second language and science knowledges; we, as teachers, can do the following actions:

- Repeat many times to help them acquire the words.
- During individual activities, spend time making sure they understood the instructions.
- Use visual aids and body language to help them understand the contents.
- Take into account their needs and feelings.
- Place them in the front row, this way the teacher can see if they are following the lesson.

## **SESSIONS**

#### Session 1

Session 1	
Aims - Students should be able to identify and describe ecosystems, communities, populations, species	Contents - Biosphere organization: ecosystem, habitat, community and population.
<ul> <li>Students should be able to recognize the components of an ecosystem.</li> </ul>	- Components of an ecosystem.
Assessmer	nt criteria
Pupils will be able to	
- Explain and identify ecosystems, habitats.	communities, populations, species and
- Distinguish the main components of	f an ecosystem.
Activities	Timing

"Word cloud"	7 minutes
"Secret password"	5 minutes
"5 level of organization in the biosphere"	6 minutes
"Biosphere Drawing"	10 minutes
"Presenting our drawings"	12 minutes
"Population or community"	10 minutes
"Exit ticket"	10 minutes

ACTIVITY 1 - SESS	<u>ION</u> 1			
TITLE "Word cloud"	<b>TYPE</b> Warm up		TIMING 7 minutes	
	TENTENT	DESOU		
CLASSKOOM MANAG	EVIEN I	KESUUI	KCE5	
In this activity students v	vill participate all	- A	web in which you can crea	ite your
together as a group by putt	ing their hands up	wo	ord	cloud:
to participate and the tea	cher will act as a	htt	ps://www.wordclouds.com/	
guide.		- Stu	idents' notebook	

- Students should be able to relate previous knowledge with the theme of the unit.
- Students should be able to feel curious about what they are going to learn.

DESCRIPTION

This activity is like a brainstorming, the teacher will give the students a key word of the unit they are going to start, "Ecosystem", and they will have to write down words they think they are related. What makes it a little bit more special is that the words proposed by the students will be written in a word cloud. We will do this through a web page while each student says the word/s they have thought about. Also, they will copy the word cloud in their notebooks.

This way, students will revise their previous knowledge related with the unit and it is a good way of introducing the new unit.

ACTIVITY 2 - SESS	<u>ION</u> 1			
TITLE "Secret	TYPE Reinforcer	nent	TIMING 5 minutes	
password"				
CLASSROOM MANAG	<b>FEMENT</b>	RESOU	RCES	
In this activity students w	vill participate all	- Bl	lackboard and chalk	
together as a group by put	ing their hands up			
to participate and the tea	cher will act as a			
guide.				
AIMS				

- Students will be able to feel more motivated and excited about the new unit.

#### DESCRIPTION

All the class together will think about a secret password needed to enter in the natural science class. This secret password will be different in each unit. In this case, the password should have a connection with the topic of this unit "Ecosystems". Children can propose

different ideas as a password, and they will choose the one they like the most.

ACTIVITY 3 - SESSION 1							
<b>TITLE</b> "5 levels of	TYPE Reinforcer	nent		TIMI	ING (	5 minutes	
organization in the							
biosphere"							
CLASSROOM MANAG	EMENT	RES	OUI	RCES			
In this activity students wi	ill see a video and	-	Vie	deo	5	levels	organization
pay attention individually.			<u>htt</u>	ps://w	ww.y	outube.co	om/watch?v=b
			W	A12z6	Jzps	<u>&amp;t=197s</u>	
AIMS							

- Students will be able to pay attention to the video and get ideas to do the next activity.
- Students should be able to understand the five levels of organization in the biosphere.

#### DESCRIPTION

During the activity, students will see a video that explains the five different levels of the biosphere (5' 32"). They will need to pay attention because they will need that information to complete the next activities.

ACTIVITY 4 - SESSION 1				
<b>TITLE</b> "Biosphere	<b>TYPE</b> Reinforcement	TIMING 10 minutes		
Drawing"				

CLASSROOM MANAGEMENT	RESOURCES
In this activity students will work in pairs or	- A piece of paper
groups of three.	- Colour paints

- Students will be able to draw an appropriate representation of the five levels of the biosphere
- Students should be able to cooperate with their partner to get the best possible result.

#### DESCRIPTION

During the activity, I will divide the students in pairs or groups of three students. Each pair will have to make a drawing representing the five levels of organization in the biosphere (Biosphere, ecosystem, community, population, organism). They can be as creative as they want, but the five levels should be well represented.

ACTIVITY 5 - SESSION 1					
TITLE "Presenting our	<b>TYPE</b> Reinforcer	ment	<b>TIMING</b> 12 minutes		
drawings"					
CLASSROOM MANAG	SEMENT	RESOU	RCES		
In this activity students with	ill work in pairs or	- Sti	udents' drawings		
groups of three.					

- Students will be able to explain their drawing to the class.
- Students should be able to identify the five levels of organization in their drawings.

#### DESCRIPTION

During the activity, each pair will come to the front of the class and they will explain their drawings for one minute more or less. They should identify the five levels of organization.

ACTIVITY 6 - SESSION 1					
TITLE "Population or	TYPE Reinforcer	nent	TIMING 10 1	minutes	
community"					
CLASSROOM MANAG	<b>JEMENT</b>	RESOU	RCES		
The are no group adjust	ments, the whole	- Ac	ctivity projecte	d in the digital J	panel
class will participate indiv	vidually.	wi	th different ph	otos	
		- Tv	vo posters	(community	and
		po	pulation)		

#### AIMS

- Students should be able to tell the difference between community and population.
- Students should be able to analyze each photo and decide what level organization it is.

#### DESCRIPTION

In this activity, we will find a place in the class where the students can stand up and there is enough space to move. In one side of the class, the teacher will put the community poster and in the other side of the class she will collocate the population poster. The students will be collocated in the middle of the two posters. In the digital panel, I will project different photos and they will have to decide if it is a population or a community. Their answer to that question will be given in a physical way, standing under the poster they consider correct.

ACTIVITY 7 - SESSION 1				
<b>TITLE</b> "Exit ticket"	<b>TYPE</b> Wrap up		TIMING 10 minutes	
CLASSROOM MANAGEMENT		RESOU	RCES	
In this activity pupils will	work in pairs. The	- Ex	it ticket (Session 1)	
teacher will be visiting	their seats and			
solving doubts				
sorving doubts.				
AIMS				

- Students should be able to formulate an interesting question related with what we saw today.
  - Students should be able to apply their new knowledge about the biosphere and ecosystems to answer the questions.

#### DESCRIPTION

For this activity, pupils will work in pairs. First, they will have to think about two questions they think are important about today's lesson. Then, they will exchange tickets and answer the mate's questions. It is a communicative and cooperative activity that will help us know the knowledges they have acquired during the lesson.

Session	2
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Session 2				
Aims	Contents			
<ul> <li>Students should be able to classify each type of terrestrial ecosystems.</li> <li>Students should be able to explain the main characteristics of each one.</li> </ul>	<ul> <li>Identification of ecosystems.</li> <li>Terrestrial ecosystems. Main characteristics. Fauna and flora.</li> </ul>			
Assessment criteria				
Pupils will be able to				
- Recognize and explain some terrestrial ecosystems.				
- Distinguish between the different types of terrestrial ecosystems.				
A otivitios Timing				
"Odd one out"	5 minutes			
"Jigsaw terrestrial ecosystems"	33 minutes			

"Heads up"	15 minutes
"Exit ticket"	7 minutes

ACTIVITY 1 - SESSION 2				
TITLE "Odd one out"	<b>TYPE</b> Warm up		TIMING 5 minutes	
CLASSROOM MANAG	EMENT	RESOURCES		
In this activity students will participate all		- Im	ages of ecosystems (One of them is	
together as a group by putt	ing their hands up	dif	ferent from the others)	
to participate and the teacher will act as a		- Blu	ue tack	
guide.				

- Students should be able to have a prior idea about what the session will deal with.

#### DESCRIPTION

This activity consists on putting in the blackboard, using blue tack, five different images of ecosystems. One of them is different from the others. Students will have to guess which one is different and why.

ACTIVITY 2 - SESSION 2				
TITLE "Jigsaw	TYPE Reinforcer	nent	TIMING 33 minutes	
terrestrial ecosystems"				
CLASSROOM MANAG	EMENT	RESOU	RCES	
In this activity students	will work in two	- Ph	otocopy they have to complete with	
different groups. The tead	cher will act as a	the terrestrial ecosystems		
guide and facilitator durin	g the activity.	- Laptops		
AIMS				
- Students should be able to analyze the information found about terrestrial			tion found about terrestrial	
ecosystems and synthetize what is useful				
- Students should be	able to investigate	e and dedu	ce all together, as a group.	

#### DESCRIPTION

The objective of this activity is to find information about each type of terrestrial ecosystem and complete the photocopy. To meet this objective, the collaborative jigsaw method will be used.

First, students will be divided in five groups of five students. Each group will find information on their laptops about one terrestrial ecosystem (one group about the forest, another one about the savannah, the other about the tundra...).

After they finish with the first part of the activity, we will create groups of five again. This time, each member of each ecosystem will go to another group. The result would be that each new group had a member with information of each ecosystem. They will share their knowledges about the terrestrial ecosystems with each other and complete the photocopy all together.

ACTIVITY 3 - SESSION 2				
TITLE "Heads up!"	<b>TYPE</b> Reinforcement		TIMING 15 minutes	
CLASSROOM MANAG	<b>EMENT</b>	RESOUI	RCES	
In this activity students will be divided in		- Ca	rds with the name of the terrestrial	
groups of five playing a ga	ume called "Heads	eco	osystems.	
up". The teacher will take	the role of guide.			

- Students should be able to recognize the different types of terrestrial ecosystems and their characteristics.
- Students should be able to make correct yes or no questions to guess the terrestrial ecosystem.

#### DESCRIPTION

We will divide the class into five groups of five students each. Each group will have five cards with the names of the terrestrial ecosystems (forest, savannah, desert, tundra and rainforest)

The cards will be turned down and one student will take one card. Then, he will have to put the card up on his head, this way the other members of the group would be able to see the name of the ecosystem, but he won't.

The game is about trying to guess which character is it thanks to the clues that they receive from their group mates. They can only ask yes or no questions about the ecosystem and his mates will answer them.

ACTIVITY 4 - SESSION 2				
<b>TITLE</b> "Exit ticket"	<b>TYPE</b> Wrap up		<b>TIMING</b> 7 minutes	
CLASSROOM MANAG	EMENT	RESOU	RCES	
In this activity, stude	ents will work	- Ex	tit ticket (Session 2)	
individually. The teacher	will be walking			
around and solving doubts	3.			
AIMS				
- Students should be	able to reflect or	n the lesso	on and think about what they have	
learned and what w	as difficult to und	erstand.		

#### DESCRIPTION

In this activity, students will have to reflect about what they have learnt and what was more difficult for them to understand completing the squares of the ticket. This way, the teacher is conscious of the knowledge and difficulties of each students

Session 1 (So minutes)	Session	1	(30	minutes)
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Session 1 (30 minutes)	
Aims	Contents
<ul> <li>Students should be able to review the knowledge they have acquired during the week</li> <li>Students should be able to show their knowledge by answering the questions correctly.</li> </ul>	<ul> <li>Identification of ecosystems.</li> <li>Terrestrial ecosystems. Main characteristics. Fauna and flora.</li> <li>Biosphere organization: ecosystem, habitat, community and population.</li> <li>Components of an ecosystem.</li> </ul>
Assessme	nt criteria
Pupils will be able to	
- Answer the questions of the kahoot	correctly.

- Demonstrate their knowledges and capacities through the activity

Activities	Timing
"Kahoot"	30 minutes

ACTIVITY 1 - SESSION 1 (30 minutes)				
TITLE "Kahoot"	<b>TYPE</b> Reinforcement		TIMING 30 mi	nutes
CLASSROOM MANAGEMENT		RESOU	RCES	
In this activity students	s will solve the	- Ka	lhoot	review
question individually.		htt	ps://create.kahoo	ot.it/details/e4681f
		<u>36</u>	<u>-6a1d-46fc-9b57</u>	-39adf2e28b67
		- La	ptops	

- Students should be able to answer the questions correctly showing their knowledge of the topic

#### DESCRIPTION

For this activity, the teacher has prepared a kahoot with questions related with what they have learnt during the week. First, she will explain how does kahoot work to her students.

Then, the students will entre in the game thanks to a code they will put in their laptops. After that, the questions will be shown in the digital panel and they will have to choose the correct answer. They get points for answer correctly and also for answering faster than others.

Session	3
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Session 3				
Aims	Contents			
<ul> <li>Students should be able to classify each type of aquatic and artificial ecosystems.</li> <li>Students should be able to explain the main characteristics of each one.</li> </ul>	<ul> <li>Identification of ecosystems.</li> <li>Aquatic and artificial ecosystems. Main characteristics. Fauna and flora.</li> </ul>			
Assessment criteria				
Pupils will be able to				
<ul> <li>Recognize and explain some aquatic and artificial ecosystems and its characteristics.</li> <li>Distinguish between the different types of aquatic and artificial ecosystems.</li> </ul>				
Activities	Timing			
"Aquatic Pictionary"	5 minutes			
"Act out"	15 minutes			

"True or false"	10 minutes
"Guess the ecosystem!"	30 minutes
"Exit ticket"	5 minutes

ACTIVITY 1 - SESSION 3				
TITLE "Aquatic	TYPE Warm up		TIMING 5 minutes	
Pictionary"				
CLASSROOM MANAGEMENT		RESOU	RCES	
In this activity students will participate all		- A	blackboard and a chalk	
together as a group by putting their hands up				
to participate and the teacher will act as a				
guide. One of the students will have to come				
to the blackboard.				
to the blackboard.				

- Students should be able to have a prior idea about what the session will deal with.

#### DESCRIPTION

This activity consists on playing Pictionary. One of the students, will come to the blackboard and the teacher will tell him the word that he has to represent with a drawing (Ocean). The rest of the students will have to guess what it is while he is drawing.

ACTIVITY 2 - SESSION 3				
TITLE "Act out"	<b>TYPE</b> Reinforcement		TIMING 15 minutes	
CLASSROOM MANAGEMENT		RESOURCES		
In this activity students will work in pairs		- So	me papers with the words written on	
and the teacher will act as a guide and		the	em	
facilitator.				
AIMS				

- Students should be able to give definitions of each aquatic and artificial ecosystems.
- Students should be able to make comprehensible gestures.

#### DESCRIPTION

Before this activity the teacher will do a little explanation of the aquatic and artificial ecosystems. After that, the teacher will organize the students in pairs. Then she will give each member of the couple some folded papers with words written on them (ocean, aquatic, flowing, farm, zoo, city, lake...). In pairs, students will have to represent these words by acting, making gestures and the other member of the couple will have to guess what it is.

ACTIVITY 2 - SESSION 3				
<b>TITLE</b> "True or false"	<b>TYPE</b> Reinforcement	<b>TIMING</b> 10 minutes		

CLASSROOM MANAGEMENT	RESOURCES
In this activity students will work	- True or false sentences
individually.	
AIMS	
- Students should be able recognize each	ch aquatic and artificial ecosystem by their
characteristics.	1 5 5
- Students should be able to decide if a	sentence is true or false.
DESCRIPTION	
For this activity, the teacher will read the foll	lowing sentences out loud:
- "Aquatic ecosystems can be freshwat	er or marine"
- "Flowing water is when the water do	esn't move"
- "The artificial ecosystems have been	naturally created"
- "Ducks and frogs live in the ocean"	
- The ocean is the largest ecosystem"	
- "Zoos and farms are examples of agu	atic ecosystems"
1 1	Ş
Students must decide if they are true or false	e. If they think it is true, they should put their
thumbs up. If they think it is false, they shou	ald put their thumb down. If they don't know
if it is true or false, they should put their thur	nb in the middle.

ACTIVITY 3 - SESSION 3				
TITLE "Guess the	<b>TYPE</b> Reinforcement	TIMING 30 minutes		
ecosystem!"				

CLASSROOM MANAGEMENT	RES	OURCES
The pupils will be divided in two big groups	-	Images of different ecosystems.
They will compete to see who knows more	-	Blackboard and chalk
about ecosystems. The teacher will mediate		
between both teams.		

- Students should be able to identify each ecosystem.
- Students should be able to list as many details as possible in the ecosystems.

#### LINGUISTIC INPUT

This activity is a game in which the class will be divided in two groups. The teacher will project a photo of an aquatic or artificial ecosystem for 40 seconds. During that time, pupils will try to remember as many details of the photo as possible. They can not write anything during the activity, it is a memory game.

Then, one student from each group will come to the blackboard and list all the details they remember of the photo. The one who remembers more details gets a point for his team. Then, another point goes to the group who guess the name of the ecosystem first.

ACTIVITY 3 - SESSION 3				
<b>TITLE</b> "Exit ticket"	<b>TYPE</b> Wrap up	<b>TIMING</b> 5 minutes		

CLASSROOM MANAGEMENT	RESOURCES			
In this activity, students will work	- Exit ticket (Session 3)			
individually. They will have to reflect on the				
lesson and write about the things they				
enjoyed the most and the ones that they				
enjoyed less.				

- Students should be able to reflect on today's lesson and think about what they enjoyed more and less.

#### DESCRIPTION

In this activity, students will have to complete the exit ticket talking about what they liked and what they didn't liked about the lesson. Thanks to this activity, the teacher will receive feedback from her students about the lesson she has designed.

Session 4
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Session 4					
Aims	Contents				
<ul> <li>Students should be able to identify and explain living things' roles in the food chain.</li> <li>Students should be able to understand that all the organism are connected.</li> </ul>	- Feeding relationships among living organisms. Food chain. Food web.				
Assessme	nt criteria				
<ul> <li>Pupils will be able to</li> <li>Explain and identify the different roles in a food chain.</li> <li>Understand that all the organisms are connected.</li> </ul>					
Activities	Timing				
"Solve the puzzle"	10 minutes				
"Food chain's creator"	15 minutes				

"Join the food chain"	15 minutes
"Did someone say crossword?"	15 minutes
"Exit ticket"	5 minutes

ACTIVITY 1 - SESSION 4						
<b>TITLE</b> "Solve the	<b>TYPE</b> Warm up		TIMING	10 minut	tes	
puzzle"						
CLASSROOM MANAGEMENT		RESOURCES				
In this activity students will participate all		- A	puzzle o	f a food	chain	with 25
together as a group and the teacher will act		pi	eces			
as a guide.		- B	u tack			

- Students should be able to have a prior idea about what the session will deal with.

#### DESCRIPTION

This activity consists on a puzzle of a food chain that the students will have to reconstruct. Each student will have a piece of the puzzle and they will come to the blackboard to place their piece on the right place.

<u>ACTIVITY</u> 2 - <u>SESSION</u> 4				
TITLE "Food chain's	TYPE Reinforcement		<b>TIMING</b> 15 minutes	
creator"				
CLASSROOM MANAG	EMENT	RESOU	RCES	
In this activity students will work in pairs or		- Flashcards of animals and plants		
groups of three students.	The teacher will			
acta a guide and facilitator	r.			

- Students should be able to differentiate between producers, consumers and decomposers.
- Students should be able to apply their new knowledge to create different examples of food chains.

#### DESCRIPTION

First, the teacher will do a little explanation of the different roles that form a food chain (producer, consumer and decomposer) and how does it work. After the explanation, students will be divided in groups of three or pairs.

Each group will have different flashcards of organisms, they will have to join them, creating different food chains. They will play by turns to see who can make the greatest number of food chains with the available flashcards. Also, they will have to name if they are producers, consumers, decomposers, herbivores, carnivores...
ACTIVITY 2 - SESS	ION 4		
<b>TITLE</b> "Join the food	TVPF Reinforcer	nent	TIMING 15 minutes
sheir"		nent	
cnam			
CLASSROOM MANAG	EMENT	RESOL	JRCES
In this activity, we will pla	ay an online game	- 0	Online game "Food chain game" by
all together in the digital pa	anel. Students can	S	heppard Software.
participate by raising the	eir hand and the	<u>h</u>	ttps://www.sheppardsoftware.com/sc
teacher will choose someo	one randomly.	<u>ie</u>	ence/animals/games/food-chain/
AIMS			
- Students should b	e able to differe	entiate b	etween producers, consumers and
decomposers.			
- Students should be	able to apply their	r new kno	owledge to join the different
organisms creating	an excellent food	chain.	
DESCRIPTION			
Continuing with the food	chain, we will pla	ay an on	line game on the digital panel. The
students will go out to the	blackboard to for	rm the di	ifferent food chains and at the same
time say if they are produce	ers, consumers or	decompo	osers.

ACTIVITY 4 - SESSION 4				
TITLE "Did someonesay crossword?"	<b>TYPE</b> Reinforcement	TIMING 15 minutes		

CLASSROOM MANAGEMENT			RESOURCES							
In	this	activity,	students	will	work	-	"Energy	flows	in	ecosystems
individually trying to solve the crossword.			crossword" photocopy							
The teacher will visit their seats and help			d help							
the	m wit	h the activity	ty.							

#### AIMS

- Students should be able to solve the crossword using the new knowledge they have acquired.
- Students should be able to review the contents of the lesson by doing this activity.

#### DESCRIPTION

For this activity, pupils will work individually doing a crossword related with the content they have seen during the lesson. The teacher will be walking around helping the students.

ACTIVITY 5 - SESSION 4				
<b>TITLE "</b> Exit ticket"	<b>TYPE</b> Wrap up		TIMING 5 minutes	
CLASSROOM MANAC	<b>JEMENT</b>	RESOU	RCES	
In this activity, stud	ents will work	- Ex	it ticket (Session 4)	
individually. They will ha	ve to reflect on the			
lesson and define the less	on with a color, a			
phrase, an idea and a word	d.			

#### AIMS

- Students should be able to reflect on the lesson and define it with a color, an idea, a phrase and a word.

#### DESCRIPTION

For this activity, students will have to complete the ticket with some information about the lesson, relate what they have learnt, with a color, a word, a phrase and idea.

#### Session 2 (30 minutes) Aims Contents Students should be able to review relationships Feeding among the knowledge they have acquired living organisms. Food chain. during the week Food web. Students should be able to show Identification of ecosystems. their knowledge by answering the Aquatic and artificial ecosystems. \_ questions correctly. Main characteristics. Fauna and flora. Assessment criteria Pupils will be able to

#### Session 2 (30 minutes)

- Answer the questions of the kahoot correctly.
- Demonstrate their knowledges and capacities through the activity

Activities	Timing
"Plickers"	30 minutes

ACTIVITY 1 - SESSION 2 (30 minutes)					
TITLE "Plickers"	<b>TYPE</b> Reinforce	nent	TIMING 30 minutes	;	
CLASSROOM MANAG	GEMENT	RESOU	RCES		
In this activity students question individually.	s will solve the	- Pli <u>htt</u> - Pli	ickers <u>ps://www.plickers.co</u> ickers cards	review <u>m/recent</u>	
AIMS					

- Students should be able to answer the questions correctly showing their knowledge of the topic

For this activity, the teacher has prepared Plickers with questions related with what they have learnt during the week. First, she will explain how does kahoot work to her students.

Then, she will give each student a Plickers card (QR code). There are four options in each question, to show the answer they should put the QR code in the correct position (8position for answer A, B, C or D).

This interactive app allows the teacher to obtain real-time data about their students' progress during the unit.

Session 5				
Aims	Contents			
<ul> <li>Students should be able to recognize the dangers of invasive species and human activity.</li> <li>Students should be able to show habits of respect and care towards living beings.</li> </ul>	<ul> <li>Human activity and biodiversity loss</li> <li>Habits of respect and care towards living beings.</li> </ul>			
Assessme	nt criteria			
Pupils will be able to				
- Recognize the consequences of human activity on the environment.				

# Session 5

- Adopt habits of respect and care towards live	ing beings.
Activities	Timing
"See-think-wonder"	7 minutes
"A whale's story"	13 minutes
"The earth is in good hands"	30 minutes
"Exit ticket"	10 minutes

ACTIVITY 1 - SESSION 5					
TITLE "See-think-	<b>TYPE</b> Warm up		TIMING 7 minutes		
wonder"					
CLASSROOM MANAG	EMENT	RESOURCES			
In this activity students w	vill participate all	- A drawing called "Man's footprint or			
together as a group by putting their hands up		the planet"			
to participate and the teacher will act as a		- Di	gital panel		
guide.					

### AIMS

- Students should be able to have a prior idea about what the session will deal with.

For this activity, the teacher will project "A man's footprint on the planet" on the digital panel. First, she will ask her students "What can they see on the drawing", they will have to describe it. Then, she will ask "What do they think about the drawing". At the end, she will ask "What do they wonder it will happen with the planet". All their answers are valid, there is no wrong answer.

This activity will allow them to communicate freely in the foreign language.

<u>ACTIVITY</u> 2 - <u>SESSION</u> 5					
TITLE "A whale's	<b>TYPE</b> Reinforcer	nent	TIMING 13 minutes		
story"					
CLASSROOM MANAG	EMENT	RESOU	RCES		
In this activity students wi	ill see a video and	- Video about pollution and biodiversity			
then they will have to w	ork in pairs. The	https://www.youtube.com/watch?v=x			
teacher will act as a guide and facilitator.		FPoIU5iiYQ			
AIMS					
AINIS					
- Students should be	able to understand	the effec	t humans' actions have in		
biodiversity.					
- Students should be	able to reflect on	the messa	ge of the story.		

This activity consists on playing a video about pollution and its effect on biodiversity. After watching the video, the students will work in pairs. The teacher will write the following questions on the blackboard: "What is the message of the story?" and "Will you act like the boy in that situation?". They will have 10 minutes to have a conversation solving those two questions. The teacher will be walking around and listening to their output.

This activity will allow them to communicate freely in the foreign language.

ACTIVITY 3 - SESSION 5				
TITLE "The earth is in TYPE Reinforcer	ment <b>TIMING</b> 30 minutes			
good hands"				
CLASSROOM MANAGEMENT	RESOURCES			
In this activity, the students will be divided	- Photocopy "The earth is in good			
in groups of three people. The teacher will	hands"			
act as a guide during the activity.	- Pencils			
ATMS				
AIMS				
- Students should be able to increase the	eir interest for taking care of the environment.			

- Students should be able to propose several measures to protect biodiversity.

For this activity, the teacher will make groups of three students. The students will only need the photocopy and their pencil. The goal of this activity is to think about measures, habits or solutions to improve the situations of the environment and the living beings.

To develop this group activity, we will use a strategy called "Pencils to the center". When the students are discussing about what ideas they are going to write, their pencils need to be on the center. When they have decided what they are going to write, everyone must take their pencils and write. If someone has a new idea to share with his mates, he says, "Pencils to the center" and everyone starts discussing again. This is a way to facilitate and control group work.

ACTIVITY 4 - SESSION 5					
<b>TITLE "</b> Exit ticket"	<b>TYPE</b> Wrap up <b>T</b>		TIMING 10 minutes		
CLASSROOM MANAG	FEMENT	RESOURCES			
In this activity, the stu	dents will work	- Exit ticket (Session 5)			
individually. The teacher	will be walking				
around and solving their doubts.					
AIMS					

- Students should be able to reflect on the lesson and think how they can apply what they have learnt in their lives.

# LINGUISTIC INPUT

For this activity, students will have to use the knowledge they have acquired to complete the ticket. They will have to think if they can apply what they have learnt in their daily lives.

# Session 6

Session 6			
Aims	Contents		
- Students should be able to review all the contents they have learnt during the unit.	<ul> <li>The relationships between living beings. Food chains. Species, populations, communities and ecosystems. Invasive species and protected species.</li> <li>Habits of respect and care towards living beings. The conservation of the environment. Pollution and regeneration factors.</li> </ul>		
Assessment criteria			
Pupils will be able to			
- Know the characteristics and components of an ecosystem understanding the			
importance of the physical environment (sun, water, air, ground and climate)			

and its relationship with living beings, identifying the causes of extinction of some species.

- Show interest in the study and observation of biodiversity and habits of respect and care towards living beings.

Activities	Timing
"Quote of the day"	5 minutes
"Kaboom"	45 minutes
"Exit ticket"	10 minutes

ACTIVITY 1 - SESSION 6			
TITLE "Quote of the	<b>TYPE</b> Warm up		TIMING 5 minutes
day"			
CLASSROOM MANAG	EMENT	RESOU	RCES
In this activity students w	vill participate all	- Di	gital panel
together as a group by putt	ing their hands up	- A	quote by John Cleese
to participate and the tead	cher will act as a		
guide.			

- Students should be able to have a prior idea about what the session will deal with.

### DESCRIPTION

For this activity, the teacher will project a quote that says "If you want creative workers, give them enough time to play" by John Cleese. Then, she will ask "what do they think it means", they will reflect a little bit about the quote and at the end she will ask the students "What are we going to do today".

ACTIVITY 2 - SESSION 6				
TITLE "Kaboom"	<b>TYPE</b> Reinforcer	nent	TIMING 45 minutes	
CLASSROOM MANAC	GEMENT	RESOU	RCES	
In this activity, the studen	ts will be divided	- Ka	aboom power point	
in groups of five people. H	Each group will be	- 18	numbered sticks and 5 bomb sticks	
a different team, they wa	ill try to win the			
game. The teacher will lea	ad the game.			
AIMS				
AINIS				
- Students should be	able to review the	different	contents of the unit.	

- Students should be able to feel more prepared for the final task

For this activity, the teacher will divide the students in five groups of five pupils. Then, she will explain the instructions to the class. The game consists on 18 different questions. There are 18 sticks that represent the different questions and 5 sticks that are bombs. The students will catch a stick randomly. If it is a question and they answer correctly, they get a point. If they answer badly, the question goes to the next group. If they pick a bomb, they lose all the points they have. The winner team will be the one who has more points at the end.

ACTIVITY 3 - SESS	<u>ION</u> 6		
<b>TITLE</b> "Exit ticket"	<b>TYPE</b> Wrap up	r	<b>FIMING</b> 10 minutes
CLASSROOM MANAC	EMENT	RESOUR	CES
In this activity, the teach	er will give each	- Exi	t ticket (session 6)
student an exit ticket and	they will have to		
answer individually. The	e teacher will be		
walking around making	sure the students		
understood the instruction	S.		
AIMS			

- Students should be able to reflect about the unit in general and how they feel about it

#### DESCRIPTION

For this activity, students will have to think about all the activities and contents they have seen during the unit and express how they feel about it and why. Thanks to this activity, the teacher will receive feedback from her students and opinions. Also, she will know how they students feel about it, if their attitudes and feelings are positive or negative.

### Session 3 (30 minutes)

Session 3 (30 minutes)			
Aims	Contents		
- Students should be able to understand the instructions and the goal of the final task.	<ul> <li>The relationships between living beings. Food chains. Species, populations, communities and ecosystems. Invasive species and protected species.</li> <li>Habits of respect and care towards living beings. The conservation of the environment. Pollution and regeneration factors.</li> </ul>		
Assessment criteria			

Pupils will be able to

- Know the characteristics and components of an ecosystem understanding the importance of the physical environment (sun, water, air, ground and climate) and its relationship with living beings, identifying the causes of extinction of some species.
- Show interest in the study and observation of biodiversity and habits of respect and care towards living beings.

Activities	Timing
"The ecosystems' Theatre Instruction"	30 minutes

ACTIVITY 1 - SESSION 3(30 minutes)				
TITLE "The	TYPE Reinforce	nent	TIMING 30 minutes	
ecosystem's Theatre				
Instruction"				
		DEGOL		
CLASSROOM MANAG	EMENT	RESOU	RCES	
In this activity, the students will be divided		- Ca	rds with the chosen ecosystem and	
in five groups and the tea	cher will give the	rol	es for each group.	
instructions to do the final	task.			
AIMS.				

- Students should be able to understand the instructions and the goal of the final task

#### DESCRIPTION

During this activity, the teacher will explain the instructions for the final task of the unit and also the students will have time to start preparing the play. It is worth mentioning, that in the implementation of this didactic unit, it may be necessary to add another session before the representation of the final task. The students may need more assessment from their teacher during the process.

The final task is a role play in which each student of the group will represent a different organism of the food chain of one ecosystem (the options are: ocean, savannah, forest,

rainforest and tundra). They will create the scenery, some disguises or whatever they want to represent the play. During the play it is important that they use specific vocabulary related with their ecosystem and wit the unit in general (They should mention words like consumer, population, terrestrial...). They will have to represent the food chain of their ecosystem (which they should take into account while making the scenery). Finally, they will have to add three proposals to improve the situation of the environment.

## Session 7

Session 7	
Aims	Contents
- Students should be able to apply the knowledge they have acquired and represent their role in the chosen ecosystem, as well as the food chain.	<ul> <li>The relationships between living beings. Food chains. Species, populations, communities and ecosystems. Invasive species and protected species.</li> <li>Habits of respect and care towards living beings. The conservation of the environment. Pollution and regeneration factors.</li> </ul>
Assessmer	nt criteria

Pupils will be able to

- Know the characteristics and components of an ecosystem understanding the importance of the physical environment (sun, water, air, ground and climate) and its relationship with living beings, identifying the causes of extinction of some species.
- Show interest in the study and observation of biodiversity and habits of respect and care towards living beings.

Activities	Timing
"Say goodbye to nerves"	7 minutes
"The ecosystems' Theatre"	43 minutes
"I am an expert in ecosystems"	10 minutes

ACTIVITY 1 - SESSION 7	
TITLE "Say goodbye to TYPE Warm up	TIMING 7 minutes
nerves"	
CLASSROOM MANAGEMENT	RESOURCES
In this activity, the teacher will give	- Photocopy with the relaxation routine
instructions to the students and they will	
have to do it individually	
have to do it individually.	

- Students should be able to release their nerves and anxiety before the final task.

#### DESCRIPTION

For this activity, the teacher will ask their students to do some exercises that will help them relax before the final task. These exercises consist on drinking water very slowly, use their thumb and two more fingers to massage their chest, doing little circles, cross your elbow with the opposite knee, repeat several times and put their fingertips together, relax and take a deep breath.

ACTIVITY 2 - SESSION 7				
TITLE "Ecosystems'	<b>TYPE</b> Reinforcer	nent	TIMING 43 minutes	
Theatre"				
CLASSROOM MANAG	EMENT	RESOU	RCES	
In this activity, the diffe	erent groups will	- Ma	aterials, disguises, scenery	done by
represent their play. The	e teacher will be	the	e students.	
evaluating the whole proce	ess.			
AIMS				

- Students should be able to show the knowledge they have acquired during the unit in their representations.
- Students should be able to use specific vocabulary related with their chosen ecosystem and food chain.

For this activity, the students will show the play they have being preparing to the class. This activity is the final task of the unit and it includes all the contents they have seen. It is important that they show what they have learned.

<u>ACTIVITY</u> 3 - <u>SESSION</u> 7					
<b>TITLE</b> "I am an expert	<b>TYPE</b> Wrap up		TIMI	NG 5 minutes	
in ecosystems"					
•					
		DECOLU			
CLASSKOOM MANAGEMEN I		RESOU	KCES		
In this activity, the teacher will give each		- Award certificate		"Ecosystem's	
student a certificate as a reward for the effort		exp	pert"		
and work made during the unit.					
AIMS					
AIMS.					
- Students should be able to feel satisfied with the work they have done during the					

- unit
- Students should be able to be aware of their capacities and knowledges.

For this activity, the teacher will congratulate their students saying that they are officially experts in ecosystems. Then she will give each student a certificate as a reward for the effort they have made.

# MATERIALS

"Word cloud", session 1



"Population or community", session 1





"Exit ticket", session 1



# "Odd one out", session 2



"Jigsaw Terrestrial ecosystems", session 2



"Heads up!", session 2



"Exit ticket", session 2



"Kahoot review", session 1 (30 minutes)



"Guess the ecosystem", session 3



"Exit ticket", session 3



"Solve the puzzle", session 4



"Food chain's creators", session 4



"Join the food chain", session 4



#### "Did someone say crossword?", session 4





#### "Exit ticket", session 4



"Plickers", session 2 (30 minutes)

# Which animal lives in the ocean?







#### "See-think-wonder", session 5



# "The earth is in good hands", session 5



"A whale's story", session 5



"Exit ticket" session 5



#### "Kaboom", session 6





#### "Exit ticket", session 6







"Ecosystem's Theatre Instruction", session 3 (30 minutes)



#### "Say goodbye to nerves", session 7

#### Brain Gym® Program - PACE

PACE is a 4 step readiness routine to be Positive, Active, Clear and Energetic at the start of a class, after lunch, before study or sport. PACE can be done anytime you feel that you are lacking focus and unable to pay attention.

Water for ENERGY



Step 1: Sip plenty of water (throughout the day) as electrical and chemical actions of the brain require water to fire. Water activates and energises nerve transmission in the brain/ body system.

Brain Buttons to feel CLEAR



Step 2: Rest one hand on naval. Other hand, place thumb & 2 fingers on indented area between your collarbone & 2<sup>rd</sup> rib. Feel for the hollow about 2 cm out from the centre of the chest. Rub these indents vigorously for 60 seconds with your eyes looking to the right and then across to the left. Do this eye movement from side to side at least 3 times. Then change hands and repeat this side rubbing and using left to right eye movement.

Cross Crawl to ACTIVATE both sides of the brain



Step 3: Cross Crawl activates the motor system of the body, opening links and coordination to the right and left hemispheres of the brain. It improves, listening, reading, writing and memory by simultaneously activating both brain hemispheres.

Cross crawl can be done with elbows bent crossing to opposite bent knee or with straight arms, or marching, walking or even on the floor lying on your back. Continue for approximately 6 to 8 times.



Hook Ups to have a POSITIVE attit

Step 4: Hook Ups activate and anchor a natural positive mind & body system. Firstly cross legs at ankles, cross your hands, clasp and invert them and place on chest. Rest your tongue on roof of mouth. Eyes car be open or closed and relax posture. Can also be done also sitting & lying down. Hold position until you feel a letting go sensation.

Secondly then uncross legs & hands and place fingertips of both hands together, fingertips touching. Relax and breathe gently until the pulse in fingertips subsides. Open eyes if closed. "I am an expert in ecosystems", session 7

