

pLatform for INnovation in Natural science onlinE education

Didactic Unit (DU)/Lesson plan

The Frog

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OVERALL DESCRIPTION

Sections	Description						
1. Topic/DU Title	The Frog						
2.Brief description of the DU	Students learn what an ecosystem is and in particular the pond and the pool. They have to know the different stages of the frog life and the characteristics of the amphibians. They learn a study method through a mind map. The methodology adopted is CLIL (Content and Language Integrated Learning)						
3. Beneficiaries	Pupils age from 9 to 10						
4. Total hours	14 hours						
5. Situation problem / reality or authentic task	Students should tell the frog's life and its different stages with a storyboard for younger schoolmates.						
6. Aim/s	 Earn a study method with mind maps Improve the specific l2 vocabulary Use the mind map software and slides for the storyboard Recognize the different ecosystems and their characteristics, in particular the pond and the pool Know the life stages of the frogs Recognize amphibians through the characteristics of their body Know how to draw the frog's body 						
7. Subjects	Sciences, ICT, L2, L1, Art						
8. Expected results	An eBook about the frog life for young children using book creator						



WORKPLAN

Phase/Title/ Lessons	Brief description	Subjects	Objectives	Knowledge and Competences	Educational strategy	Tools and resources	Setting*	Evaluation and assessment	Duration
	Getting to know	Sciences	Learning				Classroom	Multiple-	2 hours
	the ecosystems.	L1, L2, Art	about living	Organise,	CLIL	Video1	PC or tablet	choice	
			and non-living	categorise and	Science:	YouTube video		question	
	The teacher		interactions	classify	Directive -	from		sheet created	
	introduces the			knowledge of	interactive,	Science for		by the	
	subject of		L2 learning	ecosystems	collaborative	kids		teacher	
	ecosystems		specific		lesson.	What are			
	through the		language and	Listening skills		<u>Ecosystems</u>		(see for	
	video 1		vocabulary in	in English				example	
			ecosystems.					<u>Ecosystems</u>	
	The teacher			English		Keywords in L1		on	
	introduces the			Vocabulary for		and L2		www.ecosyst	
	materials			ecosystems.				emsforkids.c	
Ecosystem	including some					Worksheet		<u>om)</u>	
Loosystein	keywords in L1,					'Ecosystem			
	L2.					Keywords'			
	Then Teacher								
	presents a whole								
	class activity-								
	Students look								
	and listen out for								
	keywords whilst								
	watching the								
	video and try to								
	answer the								
	questions about								
	the ecosystem								
	Worksheet:'Ecos								
	ystem keywords'								



Phase/Title/ Lessons	Brief description	Subjects	Objectives	Knowledge and Competences	Educational strategy	Tools and resources	Setting*	Evaluation and assessment	Duration
Animals living in fresh water or semi-aquatic environment s.	The teacher explains the differences between ponds and pools and the ecosystems linked to each environment using the video 2 from the Linneo platform: Natural Lake and artificial pond https://youtu.be/p8q9UZQKKCM. Then the teacher organises the students into pairs and asks them to make a mind map of what they have learned using Canva At the end of the lesson pupils present the maps they created to classmates	Sciences, ICTS, L1, L2	Learning about the inhabitants of Pond and Pool ecosystems and characteristic s of their life cycle. Use of video to extract information and create mind maps to synthesise and collate the data	To be able to identify the differences between two ecosystems (pools and ponds). Learning how to use mind maps and how they work to help summarise and analyse information collected.	Collaborative lesson in pairs, on the collection of information.	Video 2 from LINNEO project Natural lake and artificial pond Canva platform for creating the mind map.	IT Lab	Pupils draw individually a mind map about pools and ponds with Canvas or another platform	6 hours



Phase/Title/ Lessons	Brief description	Subjects	Objectives	Knowledge and Competences	Educational strategy	Tools and resources	Setting*	Evaluation and assessment	Duration
	After watching	Sciences,	Learn about	To be able to	Teacher-	Video 3	Classroom	In L2 students	
Lesson 3.	the video on	ICTS, L1, L2,	the different	describe and	guided	from	, IT Lab	complete a	6 hours.
The frog	Linneo platform	Art	aspects that	explain	group work	LINNEO		question	
_	(Video 3) and		influence the	To be able to	lesson on	project		sheet about	
	other videos		metamorpho	describe and	the different	<u>Fresh water</u>		the lifecycle	
	about frogs (es:		sis of frogs.	explain the	stages of	and semi-		of the FROG	
	Video 4),			biological	the life of	<u>acquatic</u>		created by	
	students have to		How frogs	changes in the	frogs.	<u>environments</u>		the teacher	
	explain the life		adapt to	life of frogs in	11080.	Minter A		(see for	
	cycle of the frog		these aspects	their natural		Video 4		example	
	from spawn to		in each cycle.	environment.		YouTube video		Activity 3	
	adult. Pupils are, then,					from Free school		Frog Life Cycle on	
	divided into					The Life Cycle		Tilgate Nature	
	groups, and					of a Frog:		Centre	
	each group will					Metamorphosi		website)	
	be assigned a					s from Tadpole		<u>wobsito</u> j	
	stage of					to Frog for Kids			
	development of					301100101111111			
	the frogs (spawn,					Worksheet			
	tadpole, froglet					about the life of			
	and frog).					a frog created			
	Students are					by the teacher			
	asked to create a								
	storyboard using					Book creator			
	slides, to explain								
	to younger								
	students the								
	lifespan of frogs.								



*Setting: organisation of classroom space (physical and virtual) functional to the activity, provision of resources (technological and others), management of resources.

ECOSYSTEM KEYWORDS

Match the Keywords on the left to the correct definitions.

1	Biome	Non living components of an eco system. For example -soil
2	Ecosystem	Trees that lose their leaves in the Autumn. The temperate forest does not experience temperature extremes. Average temperatures range from 0-20c and the annual rainfall - 800mm
3	Abiotic	A global scale ecosystem. Each biome has its own distinctive plants and animals. Biomes include- Tundra, Coniferous forest (taiga) temperate forest, desert ect.
4	Biotic	Trees which are evergreen. They have needle like leaves. Example are the- fir, spruce and pine.
5	Deciduous Trees	A small body of water found in the natural environment. Often inhabited by amphibeans
6	Coniferous Trees	The ways in which plants and animals evolve so that they can live in certain environments. They can survive in certain rainfall and temperature because they have been adapted.
7	Adaptation	The interation of living (biotic) and non-living(abiotic) components in a community. The depend on eachother.
8	Meadow	Living components of an ecosystem. For example birds
9	Pond or Pool	An area of open grassland.
10	Rainforest	Large woodland subjected to heavy tropical rainfall.

Reproduce Monet's Painting "WATER LILIES"

