

pLatform for INnovation in Natural science onlinE education

Didactic Unit (DU)/Lesson plan

Meadow Plants

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OVERALL DESCRIPTION

Sections	Description
1. Topic/DU Title	Meadow plants
	In this DU, students will learn: how to distinguish between meadows and lawns; how to identify meadow plants; how to create an herbarium and a closed and open ecosystems.
2.Brief description of the DU	The DU include three phases on the following topics: 1. What is a meadow? 2. Meadow plants, species and their features 3. Building the ecosystem
3. Beneficiaries	Pupils aged 8 – 10
4. Total hours	4 hours 30 minutes and three months of observation. We recommend that activities are carried out according to the season.
5. Situation	Can every plant grow in a meadow? What are the qualities of a meadow and a lawn? What's the distinction between a closed and open ecosystem?
6. Aim/s	The main aim of this DU is for students: to learn the difference between closed and open ecosystems; to learn the difference between closed and open ecosystems; to find out how plants grow and to learn how to identify meadow plants.
7. Subjects	Science, Technology, Language
8. Expected results	Ecosystems, both closed and open, and a herbarium will be created.



WORKPLAN

Phase/Title / Lessons	Brief description	Subjects	Objectives	Knowledge and Competences	Educational strategy	Tools and resources	Setting*	Evaluation and assessmen t	Duration
	The teacher	Science,			Active and	Video 1	Classroom,	Assessment	1 hour 30
Lesson 1.	shows a video	language			Collaborative	YouTube	interactive	of the task's	minutes
	that piques				learning	video from	whiteboard	accuracy.	
What is a	students'					Discover	or screen.	Distinguish	
meadow?	interest and				Collaborating in	Planet Earth		the	
	asks them what				pairs, students	Channel.		similarities	
	the lesson's				complete a	What is		and	
	topic will be.				Bubble	<u>Happening</u>		differences	
	Video 1				Thinking Map	in the		between	
					about natural	Meadow		meadows	
	Students work in				meadows and			and lawn	
	pairs to draw a				lawns.	Bubble		(Worksheet	
	bubble map and					Thinking		1-Venn	
	write down what				Take turns	Мар		diagram)	
	they know about				presenting the			Worksheet	
	meadows.				written	Video 2		2	
					statements.	YouTube			
	The teacher		To know about			video from			
	shows next		meadows and	Be able to apply	Working in	GardensFor			
	video.		create a bubble	the information	pairs, complete	Wildlife			
	Video 2		map.	they know.	the Venn	Channel			
					diagram and	What Is A			
	After watching				check in	Meadow			
	the video, the				groups.				
	pupils work in					LINNEO			
	pairs to		To update bubble			video			
	complete a		maps with new			<u>Natural</u>			
	bubble map of		information while	Be able to select		meadow and			
	what they have		working in pairs.	key information.		lawn			



heard about the					
meadow (using					
other colours).	to summarise		Worksheet 1		
	what a meadow		(annexed)		
Pairs read to the	is.	Be able to			
class one		critically assess	Worksheet 2		
statement they		material and	(annexed)		
have written and	To identify the	identify			
add to their map	similarities and	similarities and			
by listening to	differences	differences.			
their friends.	between a				
	meadow and a				
Use the	lawn.				
teacher's					
descriptions of		Be able to select			
lawns and		true/false			
meadows from		statements			
an	To determine	about natural			
encyclopaedia	whether a	meadows and			
or reference	statement about	lawns.			
book	meadows is true				
A3.1	or false.				
and in pairs					
complete a Venn					
diagram that					
shows the					
similarities and					
differences					
between					
meadow and					
lawn.					
Worksheet 1					
After the three					
pairs have					
joined, the					



	students discuss the similarities and differences they discovered and add to their Venn diagrams. Students assess what they have learned during the lesson by responding to the teacher's questions. Worksheet 2							
Lesson 2. Meadow plants, species and their features A lesson in the meadow (herbarium)	The teacher shows a video and information about meadow plants. Video 3 A3.3 Students draw a card containing the name of a meadow plant. Worksheet 3 Students use their smart device to look up what the	Technolog y, language, Science	To find information about a plant using a book or Internet. To recognise and take a photo of the plant in the meadow and use a magnifying glass to examine parts of the plant. To follow the video instructions and prepare a	Individual work Students take out a plant name card. Students find a photo of a plant	Video 3 YouTube video from Love2Learn with Miss Ellis <u>Wild Plants</u> LINNEO video <u>Meadow</u> <u>plants</u> Cards with the names of meadow plants	Meadow	Identify a plant and prepare it for the herbarium.	1 hour 30 minutes



	plant looks like		plant for the	Be able to	on a smart				
	online.		herbarium.	identify a plant.	device.	Worksheet 3			
						Meadow			
	Students walk					plants			
	around the					(annexed)			
	meadow,								
	identifying and					magnifying			
	locating the					glass,			
	plant they have					smart			
	picked from the					device,			
	photo.				Students	folder,			
	Examine the				photograph the	reference			
	plant using a				plant then	book.			
	magnifying				uproot it.				
	glass.					Video 4			
	lt will be					YouTube			
	photographed					video from			
	and then					ThinkTac			
	uprooted (for the					<u>Science</u>			
	herbarium).			Be able to get a		Experiment			
				plant ready for					
	The teacher			the herbarium.					
	displays a video								
	of how the								
	herbarium has								
	been created.								
	Video 4								
	Students follow								
	the instructions								
	to prepare the								
	plants for the								
	herbarium.								
	Students work in	Technolog	To define a	Be able to	Collaborating in	Video 5	Classroom,	Create a	1 hour 30
Lesson 3.	groups to find	y,	closed and open	critically evaluate	groups students	YouTube	computers,	closed and	minutes
2000011 0.	out about closed	у,			take notes and	video from	tablets.		minutes

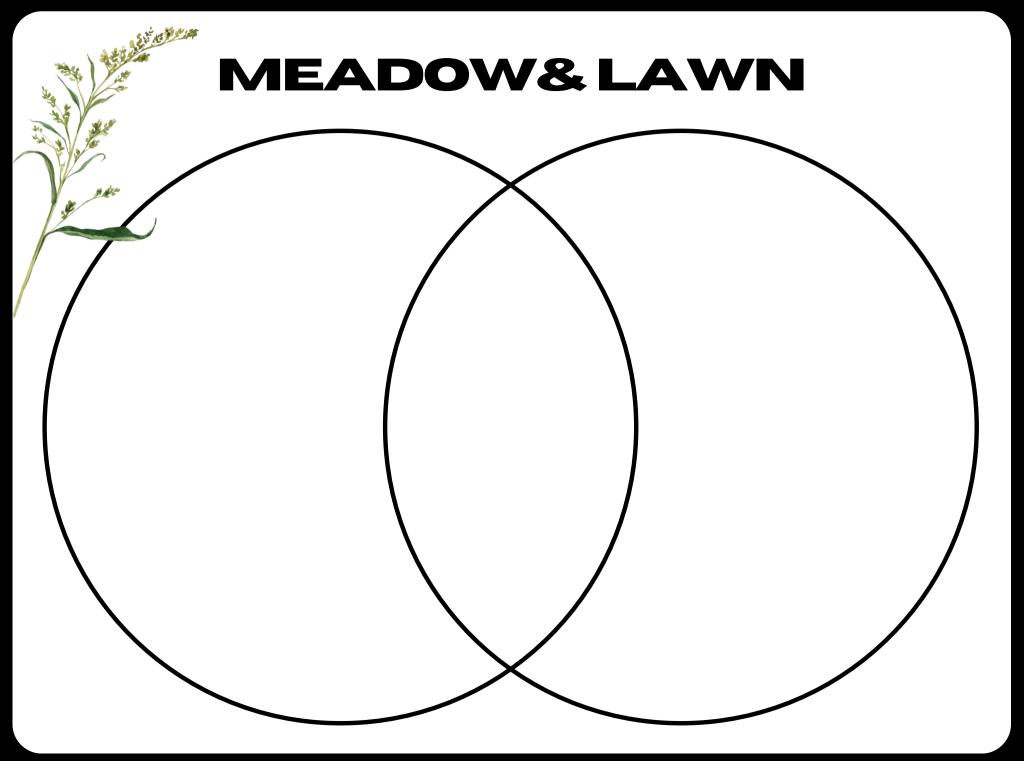
LÝN N E 🖤

Building the	and open	language,	ecology in their	the information	record	ThinkTac	open	
ecosystem	ecosystems.	Science	own terms.	provided.	important	<u>Creating a</u>	ecosystem.	
l	eeeeyeteme	Colonice		promacai	details	SIMPLE But	Fill out the	Three
	Groups share				regarding	BEAUTIFUL	research	months of
	and summarise				closed and	Ecosystem:	tracking	observation.
	knowledge				open	Step-by-	sheet.	oboorration
	received they				ecosystems.	Step		
	have collected in					Terrarium		
	a direct (frontal)					Guide		
	way. ′							
	The teacher					4.1.5.9.9.5		
	shows a video					4 large		
	how to make a		Other law to make the			transparent		
	simple		Students reach	De eklete	Collaborating in	containers, 2		
	ecosystem. Video 5		an agreement	Be able to	groups students	containers		
	Then students		and split up the work and duties.	collaborate, share roles and	create closed	need a tight-		
			work and duties.	responsibilities.	and open	fitting lid. Plasticine,		
	work in groups to create 4			responsibilities.	ecosystems.	plastic wrap		
	different		To observe and			or adhesive		
	ecosystems (2		document what	Be able to		tape can be		
	closed and 2		happens in the	systematically		used for		
	open).		ecosystems	monitor and	Collaborating in	sealing.		
	opon).		To identify	maintain	the classroom,	Meadow		
	After creating		changes, keep	ecosystems, to	students fill out	plants, soil		
	the ecosystems,		open ecosystems	provide	observation	and seeds of		
	the students will		(watering).	comments on	sheets.	meadow		
	take care of		To compare	the worksheets.		plants.		
	them, keep an		changes and			Sand or		
	eye on them,		draw			drainage.		
	and document		conclusions.			-		
	any changes for					Worksheet 4		
	three months on					Research		
	observation					tracking		
	sheets.							



Worksheet 4		sheet		
		(annexed).		

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



Meadow and lawn

True or false

1 - A lawn is an area of ground used for ornamental or functional purposes.	т	F
2 - A natural meadow is a land area with perennial grasses that grow naturally.	т	F
3-In lawns, plants self-seed and grow unattended.	т	F
4 - A lawn is composed of one or more plant species that grow quickly, provide a firm turf, withstand mowing and trampling, and form a dense herbaceous cover.	т	F
5-In natural meadows, the plants self-seed and grow unattended.	т	F
6 - Ornamental lawns are commonly constructed in parks, squares, street borders, and near farms.	т	F
7 - The lawn requires no upkeep because it grows naturally.	т	F
8 - As agriculture expands, more grasslands are being turned to farmland, reducing the number of natural grasslands.	т	F



















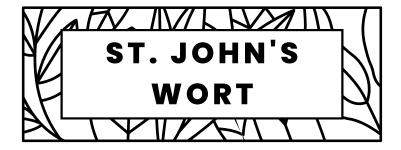










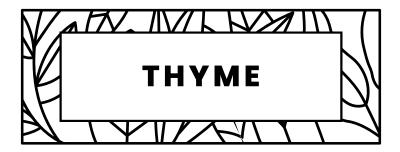


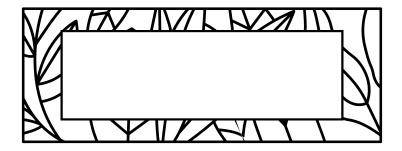


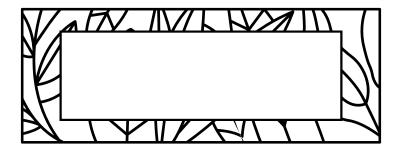


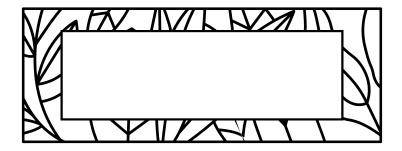


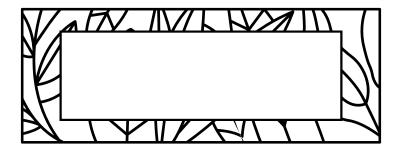




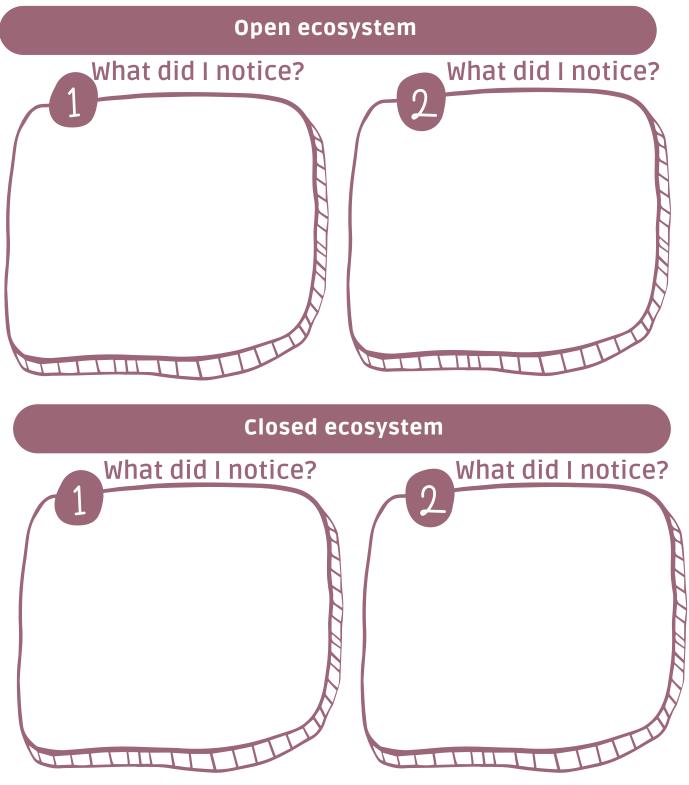




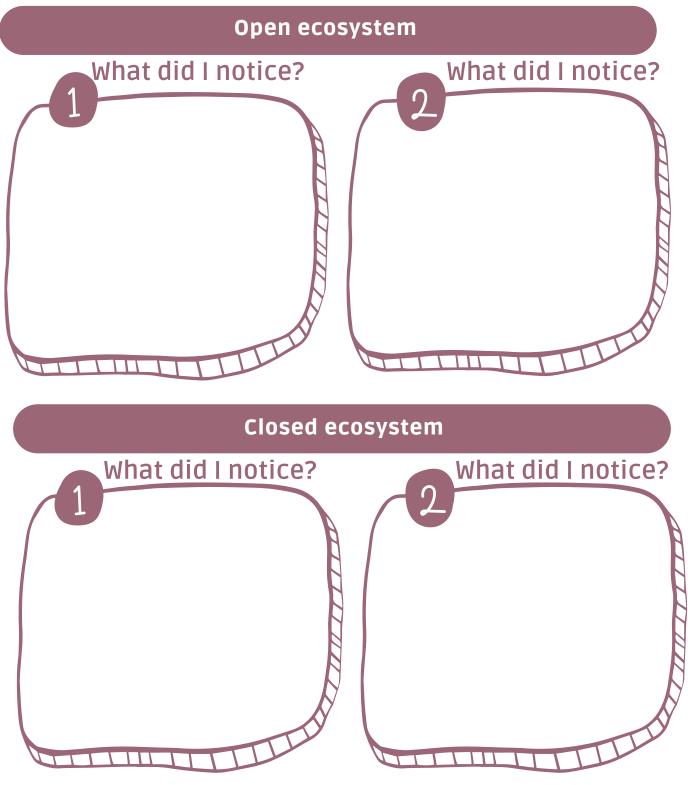




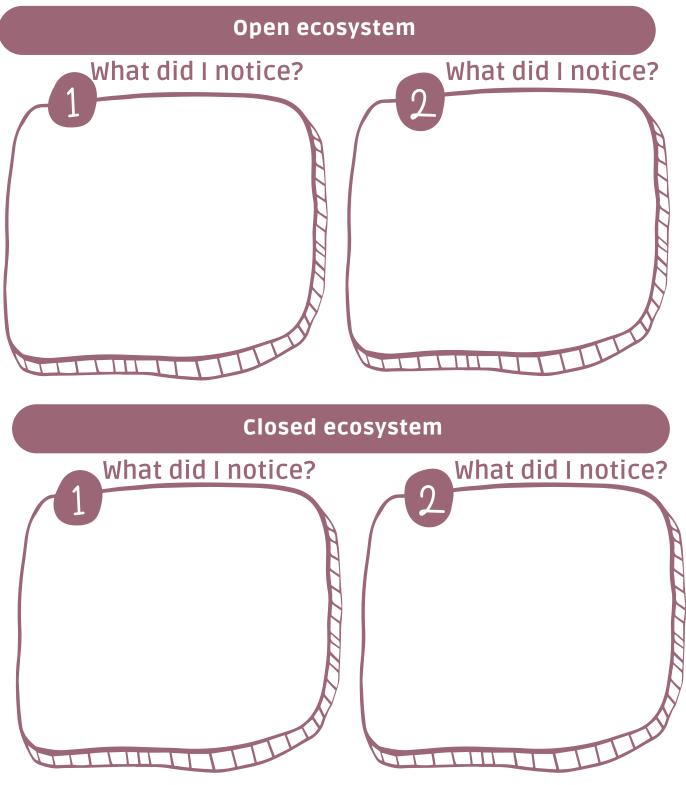
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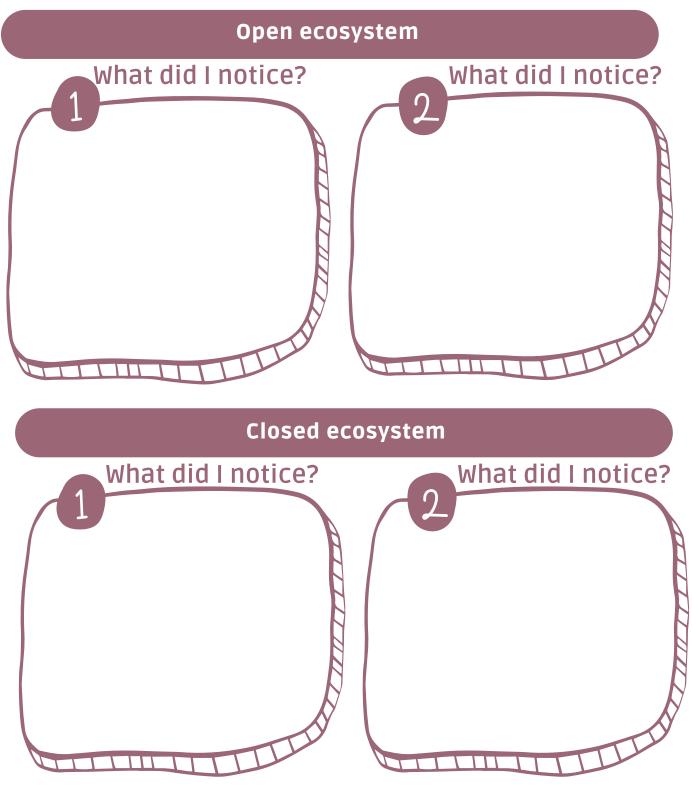
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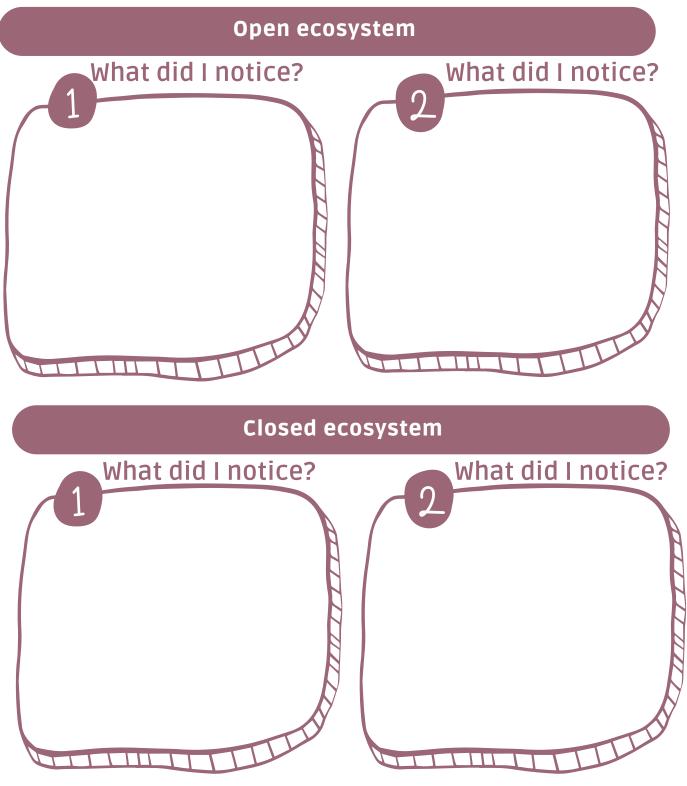
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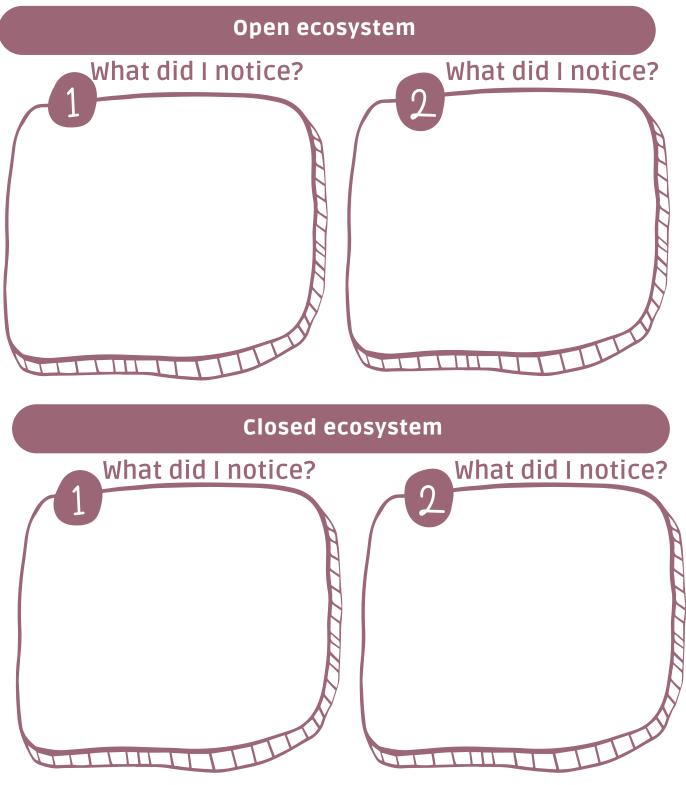
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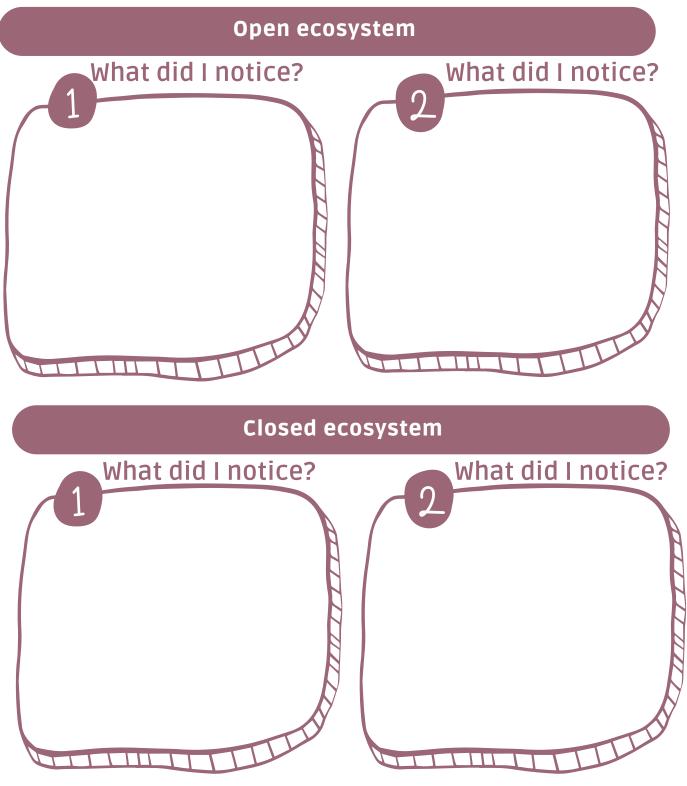
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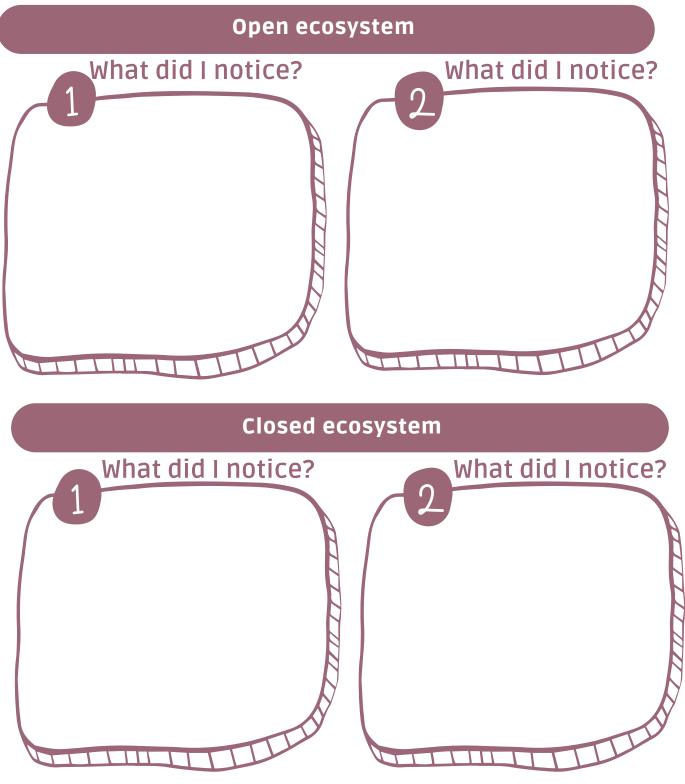
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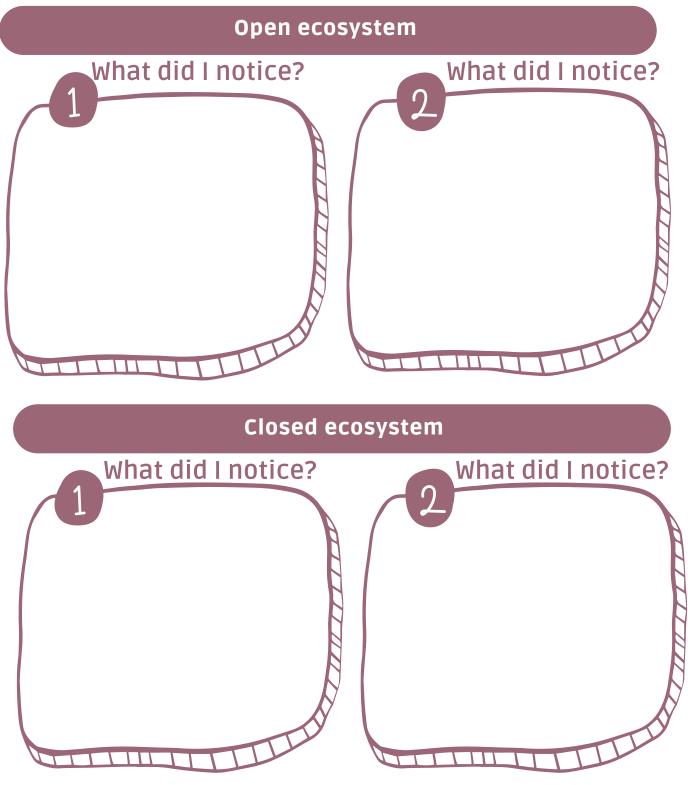
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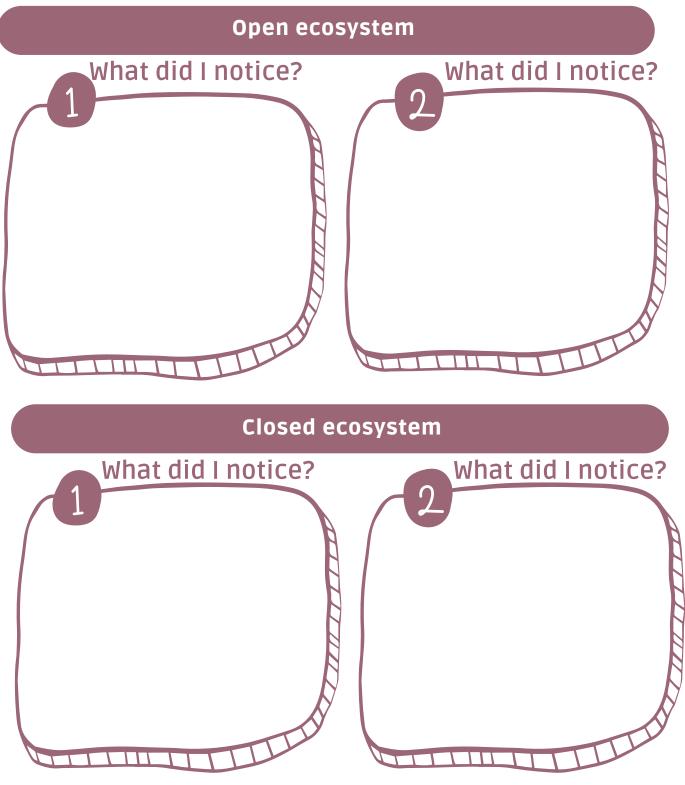
Week 8



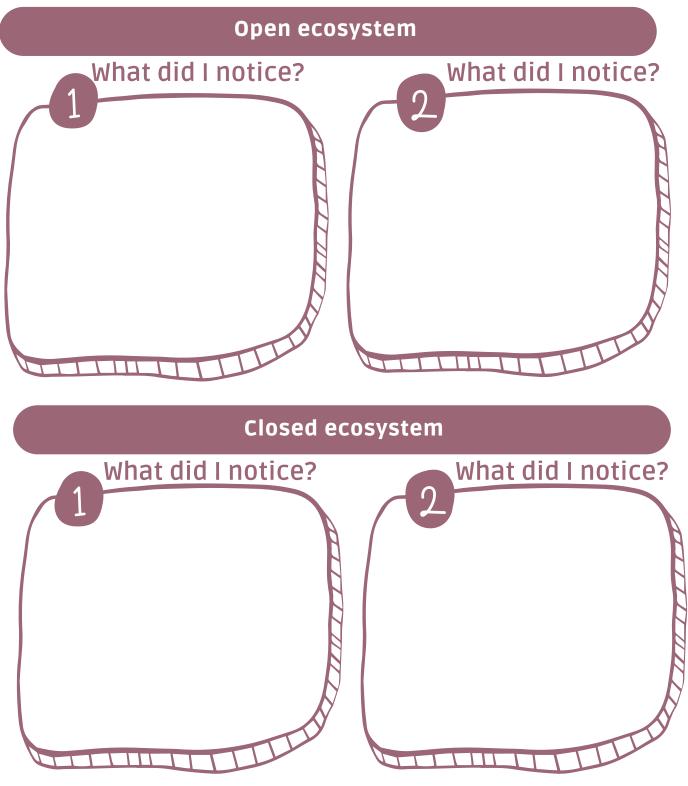
Week 9



Week 10



Week 11



Week 12

