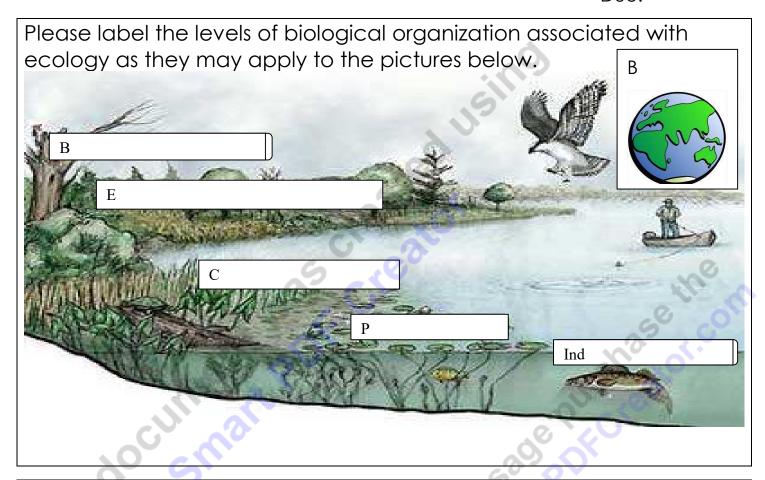
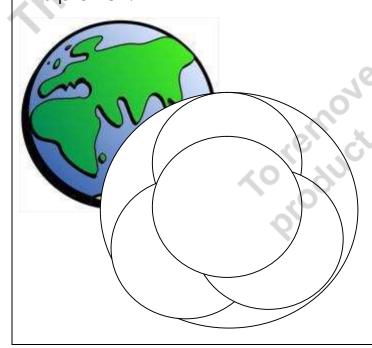
## **Ecology Interactions Unit**

Name: Due:



Please describe the biosphere on this planet?



Create a habitat of your choice in the box below. Provide the needs of living things around the habitat.

Please match the animal to its habitat (Use this word bank to help)

Boreal Fo	rest Ti	ide Pool	Des	ert	Tropical	l Rain Forest	
Tundra	De	eciduous 1	Forest	Savanna	Pol	lar / Arctic	
Prairie	Eyelash	River	Cor	al Reef	Estuary	Forest Floor	

-Note: There's a lot of diversity in the world so the matching below is meant to be general.

\_\_\_\_\_: Monkey : Starfish \_\_\_\_\_: Moose : Reindeer \_\_\_\_\_: Trout \_\_\_\_\_: Pelican : Antelope : Lion : Squirrel : Anemone \_\_\_\_\_: Mushroom \_\_\_\_\_: Scorpion : Follicle Mite \_\_\_\_\_: Penguin

Please describe what the ecological niche of an African Dung Beetle might be. - You may need to do some research.



Bee

	1 1 11	• •		• 1	/ 1 1				1 1 1
Please.	match th	e anımal	to its	niche	11 ISE 1	this word	nank	ťΩ	neini
1 10 030			10 113	1110110	1000	11 113 <b>**</b> O1 G	- COLIN		$1 \cdot 1 \cdot 1 \cdot 1 \cdot 1$

Lion

Fungus

Hyena

Termite

Algae

Spider

Clam

	Sauirrel	Deer	Beaver	Earthworm	Porcupine	Crab	Tree
		Logt the	sambium of	f trees which kills tl	no trop. The day	ad ballaw t	roos
b	ecome denn			ats for countless o		Ja Hollow I	1662
		•	•	n dry areas where		eak it dow	'n.
		-		ds of trees by coll	, <del>-</del> -		
		· · ·		ho helps clean wo	- IV -	•	
				hat keeps the her		_	
е	cosystem.			XO			
		_I am a roo	dent that cr	eates valuable ho	abitat by blockin	ıg up strea	ms with
d	ams to create	e ponds of	standing wo	ater.			
			linate plant				
				mber of insects by	•		0.
			, 0	planet earth thro	· ,		ılso a
V	aluable food			od chain in ponds			40
		-		I'm a food source			© ~O.
		•		landscape / deco		1/5	
				by crawling throu	•		
				ganic matter and			
_				elp breakdown org ugh photosynthes			•
	rovide habita			eep the forest floo			II IOI ,
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Circle the limiting factors from the list below that were described in class?

Mushrooms, Competition, Rainbows, Tacos, Space, Water, Sell Corn Starch, Sunlight, Diseases, Holidays, Wipes, by dates, Hunting, Rechargeable Batteries, Dictionaries, Predators, Whistles Energy Drinks, Magic Markers, Parasites, Almonds, Cans, Folds

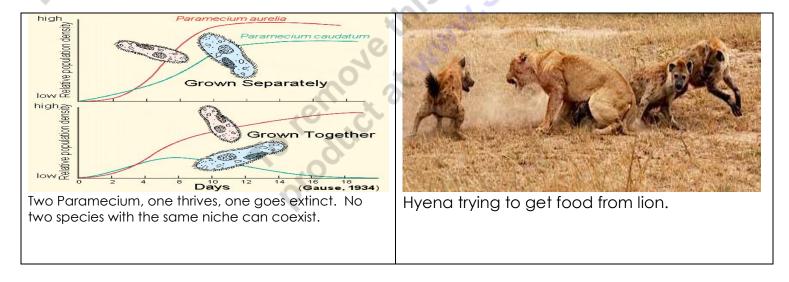
From the circled list above, which are density dependent and which are density independent?

Density Dependent	Density Independent	
~		

Which box is showing a density dependent limiting factor, and which is showing a density independent limiting factors? **Explain** 

is snowing a density independent it	miling lactors? <b>Explain</b>
	09
	The second secon

Please describe the type of competition based on the pictures below.





Two male Oryx competing for females



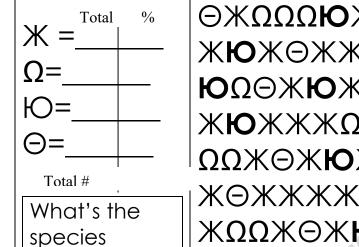
One bird chasing another bird away from area.



ease describe the bean game? What is a generalist? What is a ecialist? What strategies were used to survive? How does hat fect feeding and ultimately survival? I would attach a sheet!	
	~0
NO. CI	71,00
	7.00
ease complete a typical predator prey graph using the space elow.	;
ne edator	<b>→</b>

Prey

Please find the relative abundance for each of the species below.



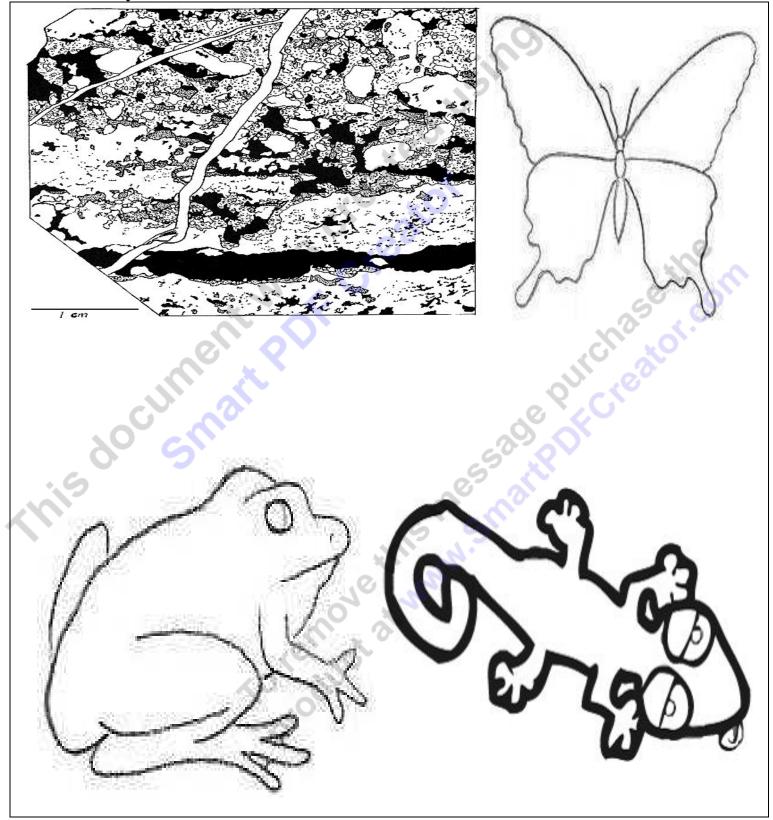
Importance of biodiversity

diversity?

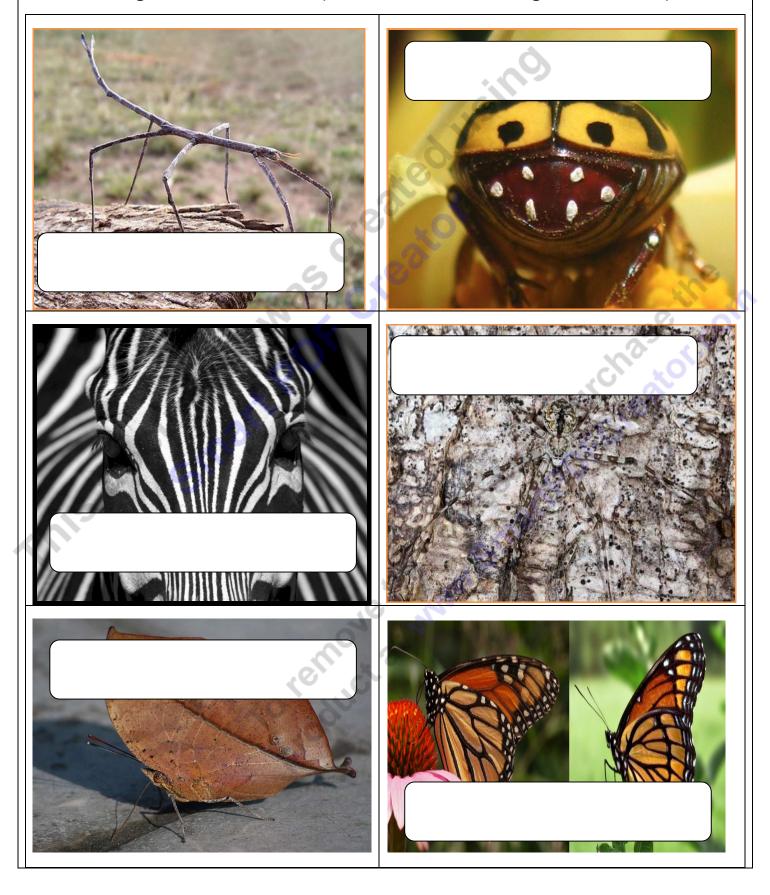
- Generation of soils and maintenance of soil quality.
- Maintenance of air quality.
- Maintenance of water quality.
- Pest Control.
- Detoxification and decomposition of wastes.
- Pollination and crop production.
- Provision of food security.
- Provision of health care (Medicines).
- Income generation.
- Spiritual / cultural value

Why should we maintain biodiversity? Pick at least three from above.
ich cha
40,000

Camouflage the butterfly to match the background. Camouflage the lizard and frog to a background of your choice. Please use color and don't just scribble.

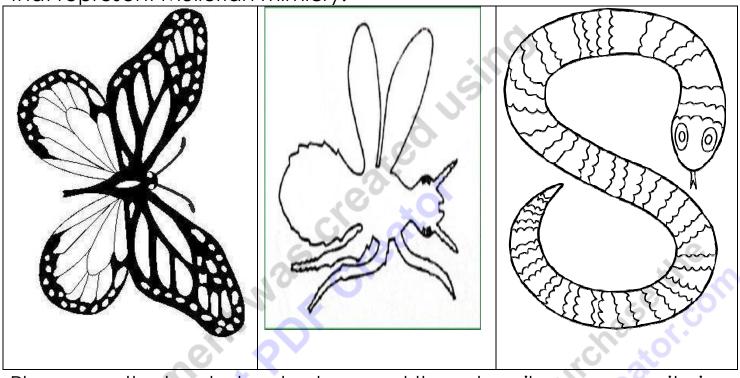


Please label the correct type of camouflage below. Concealing Coloration, Disruptive Coloration, Disguise, Mimicry



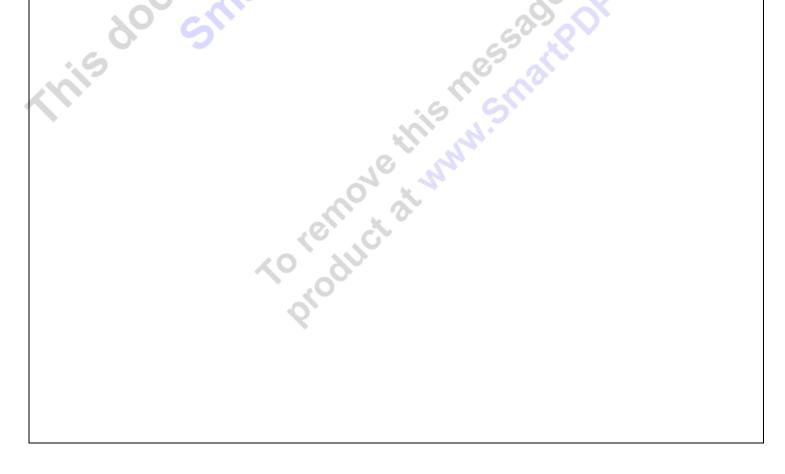
Please dress up the following organisms with different colors schemes

that represent Mullerian mimicry.

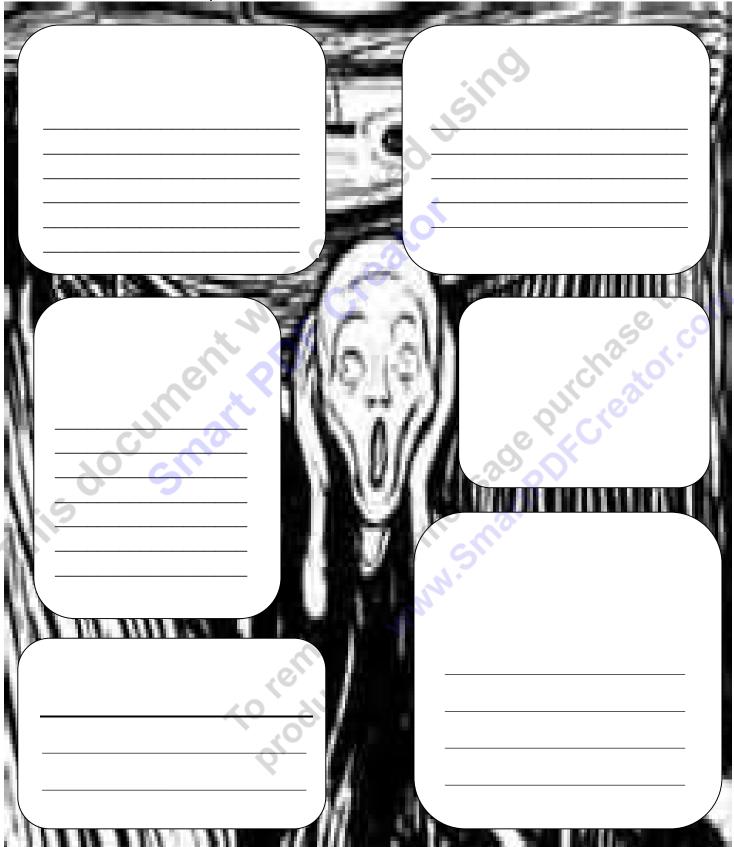


Please use the box below to draw and then describe one parasite in

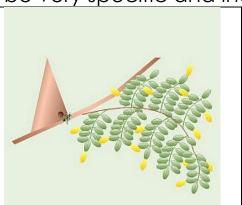
detail. Provide information around your drawing.



Please draw and describe some info about parasites from the student PowerPoint presentations or teacher slideshow.



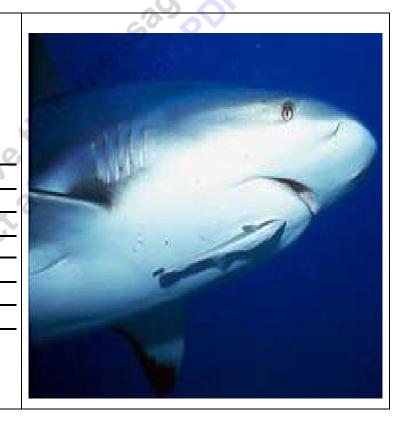
Please describe the three mutualisms below. A strong answer will be very specific and include the type of mutualism.







Please describe how the picture on the right is commensalism? Make sure to include the definition of commensalism in your response.



Please add some features to the plant below so that it can avoid predation. Provide a written description of these features around the plant. Also draw an animal that is interested in eating this plant and one feature that it has to get around that plants defense.



What's an exotic species and how do humans spread them?

Please describe some of the negative impacts and other information about some invasive exotic species. Provide a sketch under the WANTED Posters created by classmates with the name





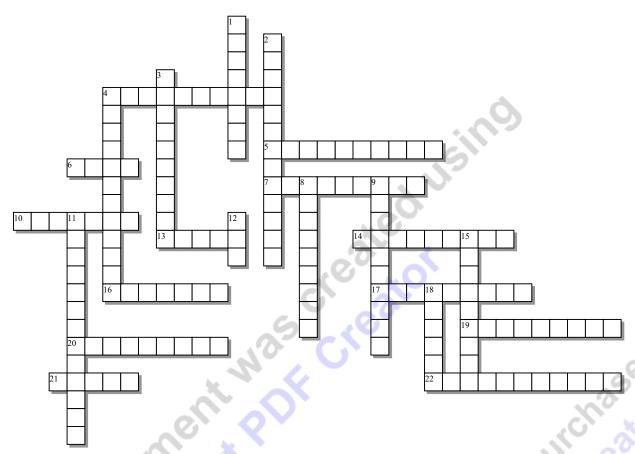




What can you tell me about each of the pictures below? Provide an example from the unit.







## Across:

- 4 An adaptation that allows the animal to blend in with its environment to avoid being detected.
- 5 Symbiosis where one organism benefits while the other is harmed.
- 6 An animal hunted for food.
- 7 The relationships between groups of populations.
- 10 A place an organism lives.
- 13 The place or function of a given organism within its ecosystem. Ecological N\_\_\_\_
- 14 The part of the earth and its atmosphere in which living organisms exist.
- 16 The resemblance of an animal species to another species or to natural objects.
- 17 The variety, or number of kinds of species.
- 19 A long term relationship between two or more different species.
- 20 Competitive \_\_\_\_\_ Theory: All organisms exist in competition for available resources.
- 21 A regional ecosystem characterized by distinct types of vegetation, animals.

  Determined by temperature and rainfall.

  22 The interaction between organisms or species, in which the fitness of one is lowered by the presence of another.

## Down:

- 1 An organism that lives by preying on other organisms.
- 2 Competition: Over resources between different species.
- 3 Groups of similar individuals who tend to mate with each other in a limited geographic area.
- 4 Symbiosis where one organism benefits and the other doesn't benefit, or suffer harm.
- 8 Symbiosis where both species benefit.
- 9 Organism with unique DNA and cells
- 11 Competition: The same species compete for resources.
- 12 Food \_ \_ : A complex network of many interconnected food chains and feeding interactions.
- 15 The relationships of populations with each other and their environment.
- 18 A species that have been introduced to an ecosystem that are not endemic to the area. (non-native) E\_\_\_\_

## Possible Answers:

Biome, Biosphere, Camouflage, Commensalism, Community, Competition, Diversity, Ecosystem, Exclusion, Exotic, Habitat, Individual, Interspecific, Intraspecific, Mimicry, Mutualism, Niche, Parasitism, Population, Predator, Prey, Symbiosis, Web

