**Ecology Project Background Research**

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: 1 2 3 4 5 6 7

**Part 1: Learning about your Animal**

Visit the following website for a list of endangered and threatened animals

<https://www.worldwildlife.org/species/directory?page=2>

Choose 1 that you’d like to research. Note, an animal may only be chosen once so no to people can research the same animal.

|  |  |  |
| --- | --- | --- |
| Common Name | Scientific Name | Conservation Status |
|  |  |  |

Research your animal and answer the following questions

1. What does your animal eat:
2. Circle the option that best describes your animal: scavenger/ herbivore / omnivore/ carnivore/ detritivore
3. Circle the option(s) that best describes your animal: primary consumer/ secondary consumer/ tertiary consumer
4. Does anything eat your animal? List any/ all here
5. List and describe 2 adaptations that help your animal survive in its environment. One should be a physical trait, the other should be behavioral.
	1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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1. Where does your animal live
	1. What continent is it found on\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	2. What country is it found in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	3. What type of biome is it found in see pages (112-115)
* Research Your Biome
	+ Describe the climate of your biome including
		- What latitude is your biome found at? \_\_\_\_\_Would it be considered polar / tropical / temperate

|  |  |  |
| --- | --- | --- |
|  | Average monthly temperature | Average monthly precipitation |
| January |  |  |
| February |  |  |
| March |  |  |
| April |  |  |
| May |  |  |
| June |  |  |
| July |  |  |
| August |  |  |
| September |  |  |
| October |  |  |
| November |  |  |
| December |  |  |

* + - Does your biome have seasonal weather changes (this may be changes in temperature, precipitation, storms…). Describe the seasonal changes your animal experiences here

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* + - Altitude: Is your biome generally flat or mountainous. Is it above or below sea level? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Research the other types of plants and animals in your animals community
		- * 4 producers: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ , \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* 3 herbivores: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* 2 carnivores: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* 2 omnivores:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* 1 scavenger:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
			* 2 decomposers: 1 Bacteria found in the soil of your biome \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ & 1fungi found in your biome \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
	+ Describe your animals niche. In doing so, consider the following:
		- Is it social or a loner (does it live in groups or not)?
		- Is it nocturnal or does it come out during the day
		- How does it get food
		- How does it find a mate
		- Is it monogamous or polygamous
		- How often does it breed
		- How many babies does it have at a time
		- Does it provide parental care to young? If so for how long? What does that care consist of?
		- What behaviors does it exhibit that help it survive?

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* + List any other cool interesting miscellaneous facts about your animal here:

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* + Evolution:
		- Find a cladogram to describe the evolutionary history of your organism
		- When did they evolve
	+ What are the ecological threats to your biome? For example:
		- Is global warming a threat to your biome? Explain
		- Is pollution a problem? If so what kind?
		- Do humans mine the area for any particular resource
			* + Wood
				+ Oil/ coal
				+ Salt
				+ Minerals
			* Other
	+ What are some ways people could or are reducing the ecological threat to your biome? For example:
		- Are there any laws protecting endangered/ threatened species
		- Do they do anything to compensate for trees they cut down
		- How are oil companies protecting the environment from pollution and spillsFirst Slide

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