**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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