**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. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
   2. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
6. Where does your animal live

|  |  |
| --- | --- |
| If your animal **lives on land** answer these questions | If your animal **lives in water** answer these questions |
| * 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) | 1. What ocean, sea, lake, river do they live in \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ 2. Do they live in a marine biome, freshwater biome, or estuary 3. Do they live in the photic or aphotic zone 4. Where do they spend most of their time the intertidal zone, neritic zone, epipelagic zone, mesopelagic, bathypelagic, or abyssal zone |

* Research Your Biome
  + Describe the climate of your biome including
    - What latitude is your biome found at? \_\_\_\_\_Would it be considered polar / tropical / temperate

If you have an aquatic ecosystem you can skip average monthly precipitation

|  |  |  |
| --- | --- | --- |
|  | 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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