Biome Project Description:

Animals adapt to their biome in order to survive and continue their species. An example of biome adaptation is that a camel has adapted to be able to live in a dry climate by storing water in fatty tissues on its back.

Your animal’s original biome has become too hazardous for survival and your animal will relocate to a new biome. Your team will have to decide how your animal needs to change (evolve) in order to survive in the new habitat. This evolution must be plausible and make sense. You would not be able to say a monkey learns to build a house with a heater, but you could say the monkey evolved to have longer arms to reach higher trees. This will require you to know what the original habitat was like ***(remember abiotic and biotic factors),*** what the new habitat is like ***(remember abiotic and biotic factors),*** and what are the limiting factors of the new environment. Your group will write up the information and create a final product. Look at the rubric to understand your tasks. **There are written and presentation components to this project**. You do not have to type the information, but it must be written neatly in blue or black ink. Your “presentation” component must be approved by your instructor.

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| **Animal**  | **Original Habitat** | **New Habitat** |
| Caribou | Tundra | Temperate Deciduous Forest |
| Dingo | Hot Desert | Alpine |
| Elephant | Tropical Grasslands | Tropical Rainforest |
| Prairie Dog | Temperate Grasslands | Temperate Rainforest |
| Lynx | Taiga | Hot Desert |
| Gray Squirrel | Temperate Deciduous Forest | Taiga |
| Jerboa | Cold Desert | Tropical Grassland |
| Gorilla | Tropical Rainforest | Tundra |
| Elk | Temperate Rainforest | Cold Desert |
| Alpaca  | Alpine  | Tropical Grassland |

**Animal Biome Group Rubric (Final Product)**

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| Period: \_\_\_\_\_\_\_Group Members:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ | Animal:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Original Biome: \_\_\_\_\_\_\_\_\_\_\_\_\_\_New Biome: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ |
| Task  | Possible Points | Actual Points |
| Students described the original habitat (incorporating abiotic and biotic factors)and gave global locations of the **original** habitat (written) | 15 |  |
| Students described the special adaptations the animal used to survive in the **original** habitat (written) | 10 |  |
| Students described the **new** habitat (incorporating abiotic and biotic factors) and gave global locations of the habitat. (written) | 20 |  |
| Students defined and described the limiting factors in the **new** environment that will affect the animal | 10 |  |
| Students describe how the animal must adapt to survive in the **new** environment. (written) | 25 |  |
| Students create an entertaining and informational way to represent the animal in its **new** environment. The presentation method must be approved by your instructor. (presentation) | 20 |  |
| Total points  | 100 |  |

Presentation method \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
Teacher approval: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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| --- | --- | --- |
| **Animal**  | **Original Biome** | **New Biome** |
| Caribou | Tundra | Temperate Deciduous Forest |
| **Animal**  | **Original Biome** | **New Biome** |
| Dingo | Hot Desert | Alpine |
| **Animal**  | **Original Biome** | **New Biome** |
| Elephant | Tropical Grasslands | Tropical Rainforest |
| **Animal**  | **Original Biome** | **New Biome** |
| Prairie Dog | Temperate Grasslands | Temperate Rainforest |
| **Animal**  | **Original Biome** | **New Biome** |
| Lynx | Taiga | Hot Desert |
| **Animal**  | **Original Biome** | **New Biome** |
| Gray Squirrel | Temperate Deciduous Forest | Taiga |
| **Animal**  | **Original Biome** | **New Biome** |
| Jerboa | Cold Desert | Tropical Grassland |
| **Animal**  | **Original Biome** | **New Biome** |
| Gorilla | Tropical Rainforest | Tundra |
| **Animal**  | **Original Biome** | **New Biome** |
| Elk | Temperate Rainforest | Cold Desert |
| **Animal**  | **Original Biome** | **New Biome** |
| Alpaca  | Alpine  | Tropical Grassland |