**Create a Creature Project**

**Biome:** The student will choose a biome and consider the main characteristics of the biome (temperature, precipitation, biotic and abiotic factors and other physical features of the biome.)

**Important Traits:** After investigating several different forms of adaptations in their biome, the student must determine the three most important adaptations for survival. The student must be able to explain how these three traits are important for an organism of their specific biome.

**Body Design:** The student will then design a specially designed organism for the biome they selected. Students should consider the following:

Body design Size- height/weight

Coloration- camouflage, fur, scales etc. Diet/acquiring food- teeth, claws, when it eats, etc.

Shelter/Protection Mobility- Fly, run, swim, crawl

Sensory abilities Communication

Reproduction/life cycle Temperature regulation/respiration

Unique gender characteristics Social interactions- solitary, packs, small groups etc.

**Sketch:** The student will sketch their organism in their biome. The adaptations essential for survival must be visible.

**Essential Questions:** Students must be able to answer these questions.

1. How do adaptations help organisms to survive in a particular biome?

2. Which adaptations are the most significant in the biome?

**Biome Adaptation Lab Rubric**

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| --- | --- | --- | --- |
| Creative Name | Appropriate and creative name | 5 points total | Self-Grade |
| Description of Biome | Identifies biome and correctly illustrates the organism’s habitat range. | 2 points each component  & 5 points general info  15 points total |  |
| Important Traits | List of traits that are important for the organism to survive and description of why they are important | 3 traits @ 5 points each  15 points total |  |
| Internal/External Body Design | Design your organism. Describe each adaptation and explain how it helps your animal adapt to its biome. | 20 points total |  |
| Sketch | Accuracy, Clarity, Completeness/Color  Creativity | 20 points total |  |
| Essential Questions | Student answers the essential questions and justifies their reasoning. | 5 points each question  10 points total |  |

**Grand Total: /85 points**