**Biome Creature Project**

**Task**

Scientists are finding new species every year. While some of them live in remote environments, others have been found in large urban cities! While you can’t travel to faraway lands in the hopes of finding a new species, you can use what you know about plant and animal adaptations to create a new species of your own!

**Part 1**

**Biome Research**

Select one of the following biomes to research:

|  |  |
| --- | --- |
| Tropical Rainforest | Tropical Seasonal Rainforest |
| Temperate Giant Rainforest | Montane Rainfoest |
| Temperate Deciduous Forest | Temperate Evergreen Forest  |
| Taiga | Elfin Woodland |
| Thorn Scrub/Forest | Temperate Woodland |
| Temperate Shrubland | Savanna – Tropical Grassland |
| Temperate Grassland | Alpine Grassland |
| Tundra | Tropical Desert |
| Warm-Temperate Desert | Cool-Temperate Desert |
| Arctic-Alpine Desert | Bog |
| Tropical Freshwater Swamp  | Temperate Freshwater Swamp |
| Mangrove Swamp | Salt Marsh |

**Questions**

1. What is the name of your biome?
2. What are the characteristics of your biome? (Climate, average temperature, average precipitation, are there seasons, etc.)
3. What are the global locations of your biome? (continents & countries)
4. Identify five plants found in your biome. Describe the adaptations that they have for surviving in your biome.
5. Identify five animals found in your biome. Describe the adaptations that they have for surviving in your biome.

1. Describe threats to your biome. Give some details to the threats (what are some causes/effects of the threats?). Ex. Deforestation, pollution, global warming
2. Bibliography with at least three different internet sources and one book source
3. Pictures to include are: a map of the biome location, two plants you described, two animals you described, landscape, and one picture of the threat.

**Part 2**

After learning about the biome/ecosystem, you will design an animal that lives in that biome/ecosystem. This has to be a fictitious organism that you create that might actually exist there, but does not as far as we know. You will determine the various aspects of its existence listed below.

1. Where does your animal live in your habitat? (on the ground, in the air, tree tops, etc.)
2. What are the physical features of this creature?
3. Why are these features needed in this habitat?
4. Describe this creature’s trophic level.
5. Is the creature nocturnal or diurnal?
6. Does this creature have any natural predators?
7. Describe this creatures method of reproduction and describe/draw its young
8. Provide a colored drawing of your creature (Try your best)
9. Make a 3-D model of it (your choice of materials)
10. Give your creature a common and scientific name using binomial nomenclature
11. Draw or picture your creature in a food web (including plants and animals from part 1)
12. Describe how it might change its ecosystem if it were really introduced into that ecosystem.

**Product**

1. An oral presentation
2. An accompanying visual presentation including your model, pictures, and research
3. The display may be on a trifold presentation board, or may be constructed creatively by recycling anything non-perishable that you can think of. Creativity and recycled materials will earn you extra points. It should be no larger than a large trifold presentation board.

**When**

The spring 2018 Science Festival will be held in the LCHS Cafeteria on Thursday May 24, 2018. It will run from 5-6:30 PM with set up beginning immediately after school. Clean up should be complete by 7PM. **As part of an honors level science course, you will be required to attend and present your project during this event.**