



Rising 7th Grade
Science Summer Project

Student Name: _____

Date Project Turned In: _____

Student Signature: _____

Parent Signature: _____

Science Standards:

S7L4. Students will examine the dependence of organisms on one another and their environments.

S7CS1 Students will explore the importance of curiosity, honesty, openness, and skepticism in science and will exhibit these traits in their own efforts to understand how the world works.

S7CS6 Students will communicate scientific ideas and activities clearly.

S7CS10 Students will enhance reading in all curriculum areas.

Common Core Literacy Standards

ELACC6-8WHST2:

d. Use precise language and domain-specific vocabulary to inform about or explain the topic.

This year your Life Science project investigation will introduce you to biomes and food webs. A biome is one of the world's largest ecological communities. Their distribution patterns are strongly correlated to the range of latitude and longitude and their climate. A biome is composed not only of particular vegetation, but also of associated communities of fauna interacting with chemical and physical factors such as soils in the region. There are many different kinds of plants and animals on the Earth, but only certain kinds are naturally found in certain climatic regions of the four hemispheres. This large climatic ecosystem consisting of the community of plants and animals living together are classified as terrestrial or aquatic biomes. As you complete your task you will not only learn about the biomes, but about the food webs found within a biome as well.

CHOOSE ONE OF THE TASKS BELOW TO COMPLETE.

1. Create a Children's Book with LARGE illustrations, describing the adventures of "Sam" the Ram as he travels through 2 terrestrial biomes. Describe what he will see/feel in each biome (animals, plants, climate, etc.). Make sure the story has narrative elements including characters, conflict, rising action, climax, falling action, and resolution.

Do not forget to utilize your Public Library and the internet for resources on biomes. Include a bibliography in APA style with at least 5 sources.

2. Visit a zoo, a Science Nature Museum, a Wild Life/ Nature Reserve Park, or an aquarium to complete this task. Students will schedule an interview with a zoologist or botanists at the location. The focus of the interview should be to investigate how the animal/plant exhibits are constructed to mimic the home biomes of the animals and plants/or you should interview the park rangers etc. to gather information about the park and the fauna and the flora found on location. You can present your findings in the form of PowerPoint, flyer, brochure, a 2 page narrative, poster, video, i-movie, or even a model. Do not forget to include a bibliography in APA Style with at least 3 sources.

Some ideal locations include: Fernbank Science Center, Zoo Atlanta, & The GA Aquarium.

3. Research a food web found within your favorite biome. Create a short three-minute video clip (mocking the Brain POP style), an i-movie, colorful poster, mobile, 3-D diorama, or a written rap or song to explain the flow of energy within your food web.

Please note that it should be a web with at least 10 organisms and not a food chain.

At the end of the video, students should provide a 10 question quiz.

Do not forget to include an APA style bibliography with at least 5 sources.

Rubric

Summer Science Project

Name: **Science Teacher** _____

Student Name: _____

| CATEGORY | 5 | 4 | 3 | 2 |
|-----------------------|---|---|---|--|
| Requirements | All requirements are met and exceeded. | All requirements are met. | One requirement was not completely met. | More than one requirement was not completely met. |
| Organization | Content is well organized using headings or bulleted lists to group related material etc. | Uses headings or bulleted lists to organize, but the overall organization of topics appears flawed. | Content is logically organized for the most part. | There was no clear or logical organizational structure, just lots of facts. |
| Content | Covers topic in-depth with details and examples. Subject knowledge is excellent. | Includes essential knowledge about the topic. Subject knowledge appears to be good. | Includes essential information about the topic but there are 1-2 factual errors. | Content is minimal OR there are several factual errors. |
| Attractiveness | Makes excellent use of font, color, graphics, effects, etc. to enhance the presentation. | Makes good use of font, color, graphics, effects, etc. to enhance to presentation. | Makes use of font, color, graphics, effects, etc. but occasionally these detract from the presentation content. | Use of font, color, graphics, effects etc. but these often distract from the presentation content. |

Final Total Points: ____ / 20

Letter Grade:

Teacher Commentary: