



7th grade Science Reinforcement Assignment

Over the two-week break, scholars have three assignments they need to work on to help them prepare for the science fair and the Ecology benchmark to be held at our return.

Due on or before October 10th, 2016

Georgia Performance Standards:

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

- a. Demonstrate in a food web that matter is transferred from one organism to another and can recycle between organisms and their environments.
- b. Explain in a food web that sunlight is the source of energy and that this energy moves from organism to organism.
- d. Categorize relationships between organisms that are competitive or mutually beneficial.
- e. Describe the characteristics of Earth's major terrestrial biomes (i.e. tropical rain forest, savannah, temperate, desert, taiga, tundra, and mountain) and aquatic communities (i.e. freshwater, estuaries, and marine).

Next generation science standards:

MS-LS2-2. Construct an explanation that predicts patterns of interactions among organisms across multiple ecosystems.

MS-LS2-3. Develop a model to describe the cycling of matter and flow of energy among living and nonliving parts of an ecosystem.

Assignment: Students will select and view an ecology based movie available for the following list and write a three paragraph essay answering the following questions:

1. (S7L4e) What biome is the movie set in? What evidence does the movie provide to let you know? (**paragraph one**)
2. (S7L4d) **Symbiosis** (from Greek συμβίωσις "living together", from σύν "together" and βίωσις "living") is a close and often long-term interaction between two different biological species. Describe the symbiotic relationships that exist in the movie you chose? (**Paragraph two**)
3. (S7L4a and SL4b) Describe one of the food webs presented in the movie. You must include details about producers, consumers, and decomposers. How is the Sun the ultimate source of energy on Earth? (**paragraph three**)

Please view one of the following movies to complete your assignment:

1. Finding Nemo
2. The Lion King
3. Rio or Rio2
4. Madagascar or Madagascar 2
5. Any of the Planet Earth movies
6. Over the Hedge



Due on October 14th, 2016

Science Research Paper

Standards covered by assignment:

- S7CS6. Students will communicate scientific ideas and activities clearly. c.
- Write clear, step-by-step instructions for conducting particular scientific investigations, operating a piece of equipment, or following a procedure.
 - Write for scientific purposes incorporating data from circle, bar and line graphs, two way data tables, diagrams, and symbols.
- Organize scientific information using appropriate simple tables, charts, and graphs, and identify relationships they reveal.

Assignment: Completing research is an important part of the scientific process. This school year, students will complete an original research or engineering project to demonstrate their knowledge of the scientific process. Students received a composition notebook in class on August 31st, that will serve as their research log. Students will use the research plan template available on 7thgradescienceworld.weebly.com to complete this task. Students should write their research plan in their science research notebook in blue or black ink and submit their research notebook for grading and review on October 14th prior to the start of the school day. This is a major assignment that will be scored in the classwork, projects, and homework categories. Failure to follow the instructions or submit the assignment could result in the scholar failing the course for the 2nd nine weeks.

Due October 16th, 2016

Brain Genie <https://braingenie.ck12.org/>

Assignment: Please log onto Brain Genie (your user name is your first name last initial@elite and the password is royalknights (unless you have changed your password)) and complete your newest challenge: Ecology Review. There are a total of nine skills you need to conquer.