Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Block\_\_\_\_\_\_\_\_\_ Assigned Date 3/6/2014

**Ecosystem Project**

Due: Wednesday, March 28

**Purpose:** To construct a visual display depicting one of Earth’s ecosystems.

**Procedure:** Build a scene showing a specific ecosystem– the ecosystem will be assigned in class. You can use replicas (plastic toys), model with clay, or any other 3 dimensional items use choose. NO LIVE SPECIMENS!!! You must include AT LEAST one producer, one herbivore (first level consumer), and one carnivore (second level consumer) in your ecosystem. You need to label them – what is the animal/plant name and what its role is (niche), examples: oak tree/producer; antelope/herbivore; tiger/carnivore. If you include other plants or animals, they need to be labeled as well. On the back of your box you must include a food chain or web (if you have more than one food chain, you must make a web) of the plants and animals you chose to put in your project. You will also need to write the climate of your ecosystem as well as draw one energy pyramid on the back. Attached is the grading rubric which outlines exact expectations. This project will be three grades – one is the research information, the other is the visual display of the ecosystem and the oral presentation. We will spend one day in the computer lab doing research for the project. The rest of the project is to be completed at home. You may look for additional information in encyclopedias, other reference books (there are several to check out in MOIS library or Mansfield Public Library), or an internet search.

**YOU HAVE THREE WEEKS TO COMPLETE THIS PROJECT!**

**Don't wait until the last week!**

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Cut and Return to Mrs. Cockrum by Wednesday, 3/19

Student’s Name­­­­­­­­­­­­­­\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

I understand the directions and expectations for this project, and will support my son/daughter in completing it.

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Parent Signature/Date

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_\_\_\_

 Ecosystem Grading Rubric

Name of ecosystem clearly displayed (10 points) \_\_\_\_\_\_

Producer in the display (name and niche) (15 points) \_\_\_\_\_\_

Herbivore/Omnivore (name and niche) (15 points) \_\_\_\_\_\_

Carnivore (name and niche) (15 points) \_\_\_\_\_\_

Food Chain or Web on back of box (15 points) \_\_\_\_\_\_

Energy pyramid on the back of box (10 points) \_\_\_\_\_\_

Climate on the back of box (10 points) \_\_\_\_\_\_

Neatness (your name, spelling, display intact) (10 points) \_\_\_\_\_\_

 TOTAL POINTS \_\_\_\_\_\_\_

**THIS PAGE MUST BE TURNED IN WITH YOUR PROJECT ALONG WITH YOUR RESEARCH SHEET**.

Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Period\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Ecosystem Research

My ecosystem is a \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

1. In what location(s) is your ecosystem found?

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2. What is the climate (average weather) in this ecosystem?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. What does your ecosystem look like (wet, dry, lots or little plants and animals)?

 \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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4. List 3 producers (be specific – do not just write “tree”) that can be found in your ecosystem.

 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. List 5 consumers (be specific-do not just write “fish”) in your ecosystem and tell if they are an herbivore, omnivore, or carnivore.

 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 5.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

6. Give an example of a predator and prey you can find in your ecosystem.

 Predator - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 Prey - \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

7. Write two possible food chains in your ecosystem.

 1.

 2.

8. Draw an energy pyramid for each of the food chains you wrote for #7.

9. List 5 other interesting facts that have not been included in the previous

 questions.

 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 4. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 5. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

10. List two websites you used.

 1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

 **Biomes and ecosystem Web sites**

http://www.thewildclassroom.com/biomes/index.html

http://www.blueplanetbiomes.org/world\_biomes.htm

http://www.enchantedlearning.com/biomes/

http://www.ucmp.berkeley.edu/exhibits/biomes/

http://www.mbgnet.net/

https://php.radford.edu/~swoodwar/

http://ths.sps.lane.edu/biomes/marine3/marine3.html

http://ths.sps.lane.edu/biomes/marine4/marine4.html

http://ths.sps.lane.edu/biomes/tundra3/tundra3.html

http://ths.sps.lane.edu/biomes/tundra4/tundra4.html

http://ths.sps.lane.edu/biomes/tundra5/tundra5.html

http://ths.sps.lane.edu/biomes/desert3/desert3.html

http://ths.sps.lane.edu/biomes/desert4/desert4.html

http://ths.sps.lane.edu/biomes/savannah4/savannah4.html

http://ths.sps.lane.edu/biomes/grassland3/grassland3.html

http://earthobservatory.nasa.gov/Experiments/Biome/

http://users.rcn.com/jkimball.ma.ultranet/BiologyPages/B/Biomes.html

http://www.kidsgeo.com/geography-for-kids/0164-ecosystems.php

http://www.neok12.com/Ecosystems.htm

http://www.geography4kids.com/files/land\_ecosystem.html

http://www.windows2universe.org/earth/ecosystems.html

http://www.edupic.net/inverts.htm

http://library.thinkquest.org/11353/ecosystems.htm