Ecosystems Webquest

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Date \_\_\_\_\_\_\_\_

Bell \_\_\_\_\_\_\_

Part 1 – Ecosystem

<http://www.botanicalgarden.ubc.ca/kids/ecosystem.php>

1. Define Ecosystem \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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2. What is an example of a large ecosystem? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3. What is an example of a small ecosystem? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

4. Define Biodiversity \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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Part 2 – Animals in an Ecosystem

<http://www.sciencemadesimple.co.uk/primaryblog/animalscarnivore_herbivore_or_omnivore>

1. Omnivore – 3 examples \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where do omnivores get their energy? (answer in a complete sentence)

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2. Carnivore – 3 examples \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where do carnivores get their energy? (answer in a complete sentence)

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3. Herbivores – 3 examples \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Where do herbivores get their energy? (answer in a complete sentence)

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Part 3 – Food Webs

<http://www.harcourtschool.com/activity/food/food_menu.html>

Choose one of the three food webs. Put the food web together!

|  |
| --- |
| Consumers **–** are living things that need producers to be their food (animals and people) |
| Producers – living things which take the non living matter from the environment (plants) |
| Decomposers – living things which feed off of dead plants and animals (bacteria, fungi) |

(2) Using the information in the table above answer the following questions about your food chain:

We chose \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_food chain.

             Name a consumer in your food web \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

             Name a producer in your food web \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

             Name a decomposer (if applicable) in your food web \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Part 4 – Factors within an ecosystem

<http://education-portal.com/academy/lesson/ecological-niche-definition-lesson-quiz.html#lesson>

Define the following terms

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

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

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

<http://www.mikecurtis.org.uk/ecology/ecological_niche.htm>

Read about the Niche of a red fox. Describe the Fox’s Niche.

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List three biotic and three abiotic factors in a fox’s ecosystem

Biotic Abiotic

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

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Part 5 – Energy Pyramid

Go to <http://www.vtaide.com/png/foodchains.htm> to answer these questions.

a. In any ecosystem, there are fewer carnivores than herbivores. Why? [Your answer needs

to specifically include a description of how energy is transferred.]

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b. Why would it be extremely rare to find a food chain with nine links in it?

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Go to <http://www.elmhurst.edu/~chm/onlcourse/chm110/outlines/foodenergy.html> to answer these questions.

a. As energy passes to a higher trophic level, approximately \_\_\_\_\_\_ of the useful energy is

lost.

b. What is the benefit to a society if everyone reduces the amount of meat they eat? [Use the

concepts discussed with energy in the ecosystems to answer this question.]

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