

Teacher: _____ Period: _____ Date: _____ Grade: ____ Your Initials: _____

2011-2012 Biodiversity Assessment Form C High School

1A. Are there bacteria living in your backyard/neighborhood? Yes No
Where exactly do they live?

1B. What role(s) do they play in the ecosystem?

2A. Are there fungi living in your backyard/neighborhood? Yes No
Where exactly do they live?

2B. What role(s) do they play in the ecosystem?

3A. Are there plants living in your backyard/neighborhood? Yes No
Please name as many different species or kinds of plants in your backyard/neighborhood as you can (but stop if you fill the box).

3B. What role(s) do they play in the ecosystem?

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4A. Are there any animals living in your backyard/neighborhood? Yes No

Please name as many different species or kinds of animals in your backyard/neighborhood as you can (but stop if you fill the box).

4B. What role(s) do they play in the ecosystem?

5A. Pick a species living in your backyard/neighborhood. What species did you pick?

5B. If it goes extinct, what would happen to the other species living in your backyard/neighborhood? Why?

5C. If it goes extinct, what would happen to the environment (abiotic factors) in your backyard/neighborhood? Why?

5D. If it goes extinct, would that be good, bad or neither good nor bad?

Good Bad Neither good nor bad

Explain your choice. Why would it be good, bad or neither good nor bad?

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6. The organisms in these pictures have been arranged into three groups. Why do you think they are grouped this way?



Group 1



Group 2



Group 3

Group 1

Group 2

Group 3

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7A. Which of the organisms on the right is most closely related to the organisms in the group on the left?

A B



Related Group



A



B

7B. Why do you say that?

7C. Which traits of the organisms did you use to make your decision?

7D. What does it mean to you to say that two organisms are "closely related"?



Before Introduction



After 10 Years

8. A new floating plant was introduced to a stream. After 10 years the surface of the water is almost covered by the floating plants. One of the many changes in the stream since the introduction of the floating plant is that there are fewer predatory stoneflies living there.

8A. If a scientist told you that these two things were related, what do you think are some ways that stoneflies could have been affected by this plant?

8B. How does having fewer predatory stoneflies living in the stream affect the other living things in the stream?

8C. How could having fewer stoneflies change the environment (abiotic factors) of the stream?

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9A. A stream usually has several types of insects living in it such as damselflies, caddisflies, and mayflies. Why are there several types of insects in a stream instead of one, best-adapted type of insect?

9B. There are two streams near a factory: Stream A with 4 types of insect predators and Stream B with only 1 type of insect predator. If humans caused a disturbance by polluting the streams, which stream would be most affected? Stream A Stream B Both streams would be equally affected
Explain your choice. Why would that stream be affected?

9C. How would that stream be affected?