

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

2011-2012 Biodiversity Assessment Form B High School

1A. 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

1B. Why do you say that?

1C. Which traits of the organisms did you use to make your decision?

1D. What does it mean to you to say that two organisms are "closely related"?

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2A. 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

2B. Why do you say that?

2C. Which traits of the organisms did you use to make your decision?

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3A. 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?

3B. 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?

3C. How would that stream be affected?

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4A. Take a close look at these two organisms. If the habitat of the two organisms changed and they had to move to another area or die, which do you think would be most successful in their movement to another area?

- Earthworm Mayfly



Earthworm



Mayfly

4B. Which trait(s) of the organism would be the most helpful?

4C. Besides the traits of the organisms, what about the environment might affect the movement of an organism from one place to another?

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5A. Please name as many different species living in your backyard/neighborhood as you can (but stop if you fill the box).

5B. Please name as many different species living in your backyard/neighborhood as you can that are *not big enough* to see with your eyes. You might need a magnifying glass or microscope to see these things.

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

5D. What role(s) do they play in the ecosystem?

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6A. Pick a species living in your backyard/neighborhood. What species did you pick?

6B. If most of them died but a few were still alive, what would happen to the other species living in your backyard/neighborhood? Why?

6C. If most of them died but a few were still alive, what would happen to the environment (abiotic factors) in your backyard/neighborhood? Why?

6D. If most of them died but a few were still alive, would that be good, bad or neither good nor bad?

Good Bad Neither good nor bad

6E. Explain your choice. Why would it be good, bad or neither good nor bad?