

Teacher: \_\_\_\_\_ Period: \_\_\_\_\_ Date: \_\_\_\_\_ Grade: \_\_\_\_\_ Your Initials: \_\_\_\_\_

**2012-2013 Biodiversity Assessment Form B**

1. What are some environmental (abiotic) characteristics of a stream habitat?

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Pick one characteristic. \_\_\_\_\_

Give an example of how this characteristic might affect the organisms that live in the stream habitat. \_\_\_\_\_

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2. Choose a species of organism that you know about that lives in a stream. What species did you choose? \_\_\_\_\_

List all the other kinds of organisms in the stream that help this organism to live.

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Explain how they help.

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List all the environmental (abiotic) characteristics of the stream habitat that the organism needs to live. \_\_\_\_\_

Explain how the organism depends on them.

3. A glacier is melting and as a result, a new stream is being formed. Initially the stream has almost no living things in it, but over the next 10 years, more and more living things will be found in the stream.
- a. Imagine you work for the U.S. Fish and Wildlife Service and you need to predict what SPECIFIC living things will be found in the stream in 10 years.

How would you predict what organisms would be in the stream in 10 years? DON'T make a list of organisms. Tell us how you would make your predictions. Be as detailed as you can in your answer.

- b. What are some *interactions (relationships) with other living things* that could affect if an insect can survive and reproduce on the newly formed stream? \_\_\_\_\_

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Pick one specific interaction that you provided and describe how that would work.

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c. What are some *environmental (abiotic) factors* that could affect if an insect could survive and reproduce on the newly formed stream? \_\_\_\_\_

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Pick one specific factor that you provided and describe how that would work.

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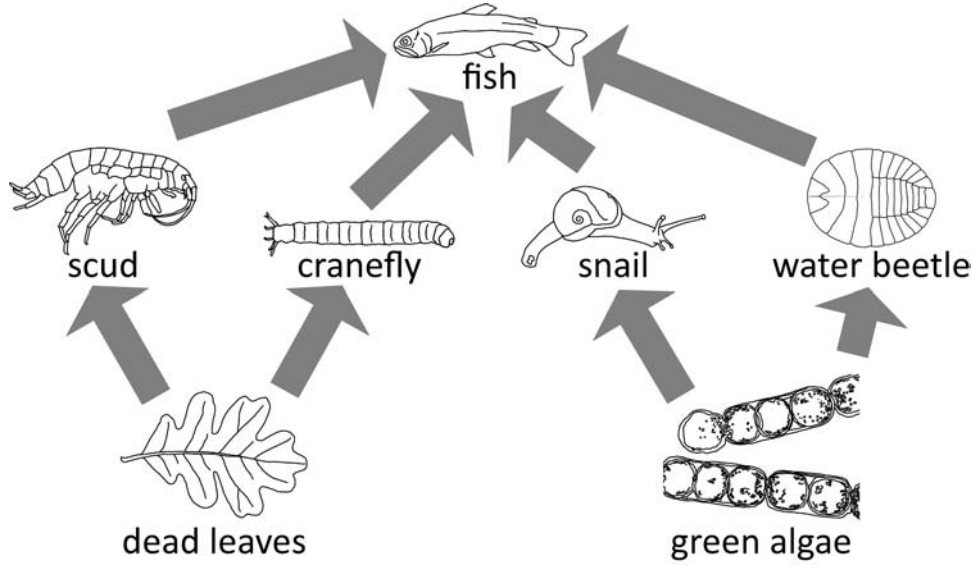
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4. Elena's lab group wants to increase the number of scuds in a stream. They made this food web showing how the scuds are connected with other organisms.



Which of the following actions would affect the number of scuds?

Decreasing the number of fish?

- Yes
- Maybe
- No

Explain your reasoning. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Adding nitrogen fertilizer to the stream?  Yes  Maybe  No

Explain your reasoning. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Increasing the amount of water beetles?  Yes  Maybe  No

Explain your reasoning. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Increasing the number of craneflies?  Yes  Maybe  No

Explain your reasoning. \_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_