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

Period\_\_\_Date\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_



**Abiotic vs Biotic Factors**

What is the definition of an abiotic factor?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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What is the definition of a biotic factor? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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All biotic and abiotic factors are interrelated. In nature you will find that if one factor is changed or removed, it impacts the availability of other resources within the system.

***On the line under each sentence below, write what might happen given the following situations.***

***In the open space place either an (A) for abiotic or (B) for biotic to identify the bolded object.***

* 1. All of the **rocks**(\_\_\_) are removed from a desert ecosystem. What would happen to the population of rock dwelling **lizards** (\_\_\_) and in turn the animals which eat them?

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* 1. A ten mile area of **trees** (\_\_\_) is removed from the tropical rainforest. How will this affect the amount of **oxygen** (\_\_\_) in the area?

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**INSTRUCTIONS: THE DRAWING IS A FORMATIVE**

**1.** Choose an ecosystem to draw. Coloring it is optional. In your drawing include the following:

* 2 different types of plants (can be something like trees, grass, lily pads)
* A lake, river OR ocean
* Sun, rocks, some soil (or sand) and a dead tree (laying down on the ground)
* More than one fish
* Frog**s** and turtle**s** in or near the water
* More than one bird
* More than one insect
* One or more mammal(s) of your choice

**2.** Identify and label your picture with the following words: (write these words on your picture)

* 4 abiotic factors (4 different ones)
* 7 biotic factors (7 different organisms)
* 1 organism
* 1 population -- circle one and write “population”
* 1 community – circle one and write “community”