

Abiotic vs. Biotic factors

1. List **five most important things** you think are necessary to survive for a living organism.
2. What is the definition of an **abiotic factor and biotic factor?**
3. Enter the items from the following list into a Venn diagram. In the center place what contains both biotic and abiotic factors.

Light intensity

Raccoon

Cave

Producers

Mountain

Water content of soil

Consumers

Dissolved oxygen levels

Forest

Parasites

Decomposers

Meadow

Temperature range

Field

Predators

Soil pH

Bird

Marsh

Humus content of soil

River

Competitors for food

Flower garden

Desert

Rainfall levels

Pond

Plants

Ocean

Fungi

Rate of water flow

School yard

Disease causing microbes

Rainforest

Pollution concentrations

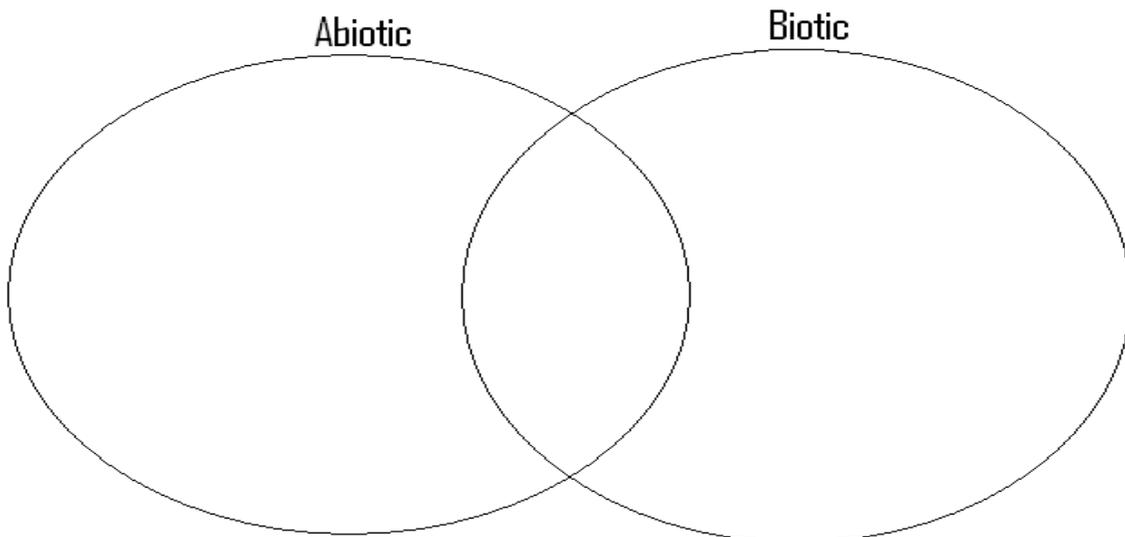
Lake

Nutrient levels of soil

Wetland

Stream

Insects



Ecology

4. 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. Knowing this, give an example of 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.

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.

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

5. Choose an ecosystem to draw. In your drawing include the following: **10 different biotic factors and 5 different abiotic factors**. Identify all 15 factors and label whether they are biotic or abiotic factors. Your picture should make sense. (Ex. There shouldn't be a polar bear in a sand desert!)