

Ecosystem-

A LIVING COMMUNITY  
AND ALL THE  
NONLIVING FACTORS  
THAT AFFECT IT.

Dec 31-10:53 AM

## Abiotic Factors

Abiotic factors are all of the **nonliving** factors that affect an ecosystem

What abiotic factors do you see in this picture?



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## Abiotic Factors Include:

**Water, sunlight, oxygen, temperature, soil quality, precipitation amounts, and more.**

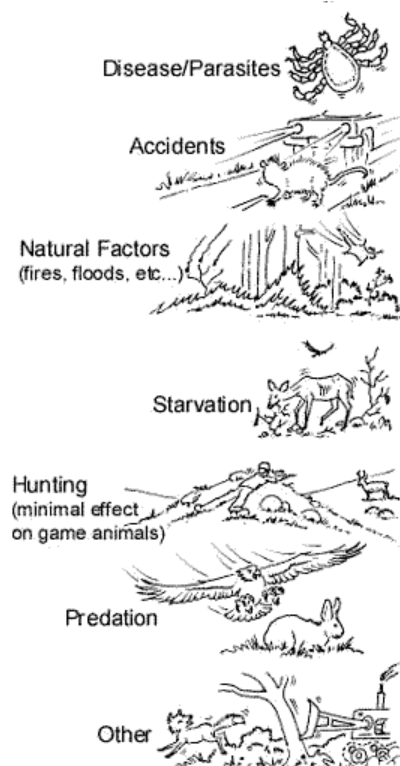
**Certain organisms are more likely to live in certain areas because of the abiotic factors that are there. For example, you won't find a polar bear in the desert because it is adapted to live in cold areas.**

Jan 25-3:04 PM

## Limiting Factors:

When living conditions are good, a population will grow. But eventually an environmental factor will cause the population to stop growing. A limiting factor is an environmental factor that causes a population to decrease.

Examples: lack of food or water, lack of space, weather conditions, increased predators, etc.



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## Biotic Factors

Biotic factors are all of the **living** factors that affect an ecosystem.

What biotic factors do you see in this picture?



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Together, biotic and abiotic factors determine the survival and growth of an organism and the productivity of the ecosystem in which the organism lives.

**GAME**

[http://www.teachersdomain.org/asset/lsp07\\_int\\_ecosystem/](http://www.teachersdomain.org/asset/lsp07_int_ecosystem/)



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What would happen if abiotic factors such as air, sunlight, or water was no longer here?

What about if there were no biotic factors such as grass, birds, or people?

The number of organisms an area can support depends on soil composition, water amounts, sunlight amounts, temperatures, plant life, and more!

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**Homework:**

1. Give two examples of how two different abiotic factors influence or affect biotic factors.

For example: The abiotic factor of oxygen affects biotic organisms such as animals because without oxygen, the living organisms would die.

2. Give two examples of how two different biotic factors influence or affect abiotic factors.

For example: Biotic factors such as bears affect abiotic factors like rocks/caves because they use them for their habitats.

3. How do abiotic and biotic factors affect each other?

4. If certain abiotic factors were no longer available, what effect would that have on the biotic factors in the area?

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