

Name:	 		
Hour:			

Abiotic vs Biotic Factors

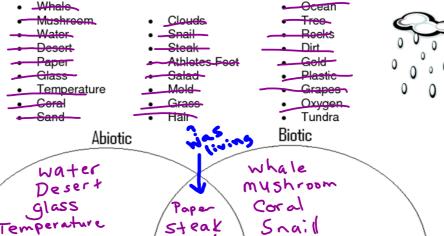
What is the definition of an abotic factor?

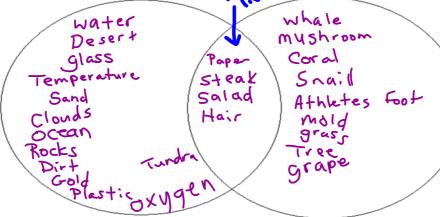
What is the definition of a biotic factor?



Enter the items from the following list into a Venn diagram. In the center place what contains both biotic and abiotic factors.







Deeper level thinking...

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 areas with the open space place either an A for abiotic or B for biotic to identify what the object is.

All of the rocks (A) are removed from a desert ecosystem, what would happen to the population of rock dwelling lizards (B) and in turn the animals which eat them.

If you remove the rocks the lizards will die.
The bug population will increase since nothing

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

No trees in 10 miles means we will have less oxygen.

Don't copy

Scientists classify organisms and assign each one a universally accepted name.

- Scientists classify because it is an **organized way to communicate** about the same organism all over the world. A classification system was developed because:
- Scientists once communicated about organisms by using common names.
- Common names can vary among languages and geographical regions.

Ex: Mountain lion, puma, cougar, and panther are all **common names for the same organism.** It would be confusing for scientists to communicate across the world about an organism only using common names.



There are many tree frogs but only one with the scientific name <u>Agalychnis</u> <u>callidryas</u>.



Scientist over time has developed a naming system that they all under stand using binomial nomenclature

Early classification systems

- Aristotle grouped everything into simple groups such as animal or plant
- Then later grouped animals according to how they moved, if they had live young or laid eggs, and so on...







The modern classification system:

Developed by Carolus Linnaeus

Consists of 7 levels:

- Kingdom
- Phylum
- Class
- Order

- Family
- Genus
- Species