**Parts of an Ecosystem**

Multiple Choice

1. Define a biotic factor.
2. A non-living component of an organism's environment.
3. A living organism and its interactions with other organisms.
4. Something that has no measurable effect on an ecosystem.
5. Define an abiotic factor.
6. A non-living part of an ecosystem that organisms interact with.
7. A living organism that often interacts with its environment.
8. A well-known parody of the hit TV show The X Factor.
9. Identify which of the following are biotic factors:

Select ALL correct options

1. Rabbits
2. Bushfires
3. Salt water
4. Computers
5. Kangaroos
6. Temperature
7. Identify which of the following are abiotic factors:
8. Temperature
9. Saltwater
10. Atmosphere
11. Lizards
12. Rabbits
13. Dingoes
14. Sunlight is needed for plants to carry out photosynthesis.

State whether sunlight is a biotic or an abiotic factor.

1. Biotic
2. Abiotic
3. Tadpoles live in a pond, where they breathe by absorbing oxygen from the water.

State whether the concentration of oxygen in the pond is a biotic or an abiotic factor.

1. Biotic
2. Abiotic
3. Fish can only live in water that is within a certain temperature range.

State whether the water temperature is a biotic or an abiotic factor for the fish.

1. Abiotic
2. Biotic
3. A gazelle is munching grass on the savannah when it is surprised by a hungry lion.

State whether the lion is a biotic or an abiotic factor.

1. Abiotic
2. Biotic
3. Fish breathe by absorbing oxygen from the water around them.

State whether the fish are a biotic or an abiotic factor.

1. Biotic
2. Abiotic
3. The flowers in this garden belong to several different species of plants.

State whether the flowers are a biotic or an abiotic factor.

1. Abiotic
2. Biotic

Short Answer

1. A herpetarium is an enclosure designed to house reptiles.

To ensure the reptile's comfortability they are designed to best emulate the reptile’s natural habitat. As such they often have things like plants, soil, sand, water and have their light and temperature kept at a level that similar to their natural habitat. It is also important that a herpetarium is an appropriate size for the reptile and population in the enclosure.

**Classify the biotic and abiotic factors of a herpetarium**.

1. Distinguish between biotic and abiotic factors. Provide at least one example of each factor.
2. Think of your school as an ecosystem. **Identify some of the abiotic and biotic factors in the school, and explain why your school could be called an ecosystem.**

Remember, an ecosystem also needs interaction between the abiotic and biotic factors.