**Outdoor Lab 1: Biotic vs Abiotic**

Background: A place with ***biodiversity*** has many plant and animal species. There are many different biotic and abiotic on our school grounds and each has different characteristics. A healthy ecosystem is based on a variety of abiotic factors and high biodiversity. The goal of this Outdoor Lab is to identify the biotic and abiotic factors in the outdoor lab.

1. Define Biotic:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Define Abiotic:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

Instructions: In pairs, explore the 3 different habitats that make up Skyline’s Outdoor Lab. Your goal is find things that have the following characteristics. Each item must be a part of the ***natural*** environment such as a plant, animal, soil or water.

* Write the example that you find that has that characteristic in the second column.
* Check whether you think it is an abiotic, producer or consumer.

|  |  |  |  |
| --- | --- | --- | --- |
| **Characteristic** | **Write the example you found:**  | **Abiotic** | **Biotic** |
|  | Producer(plants) | Consumer |
| 1. Yellow
 |  |  |  |  |
| 1. Round
 |  |  |  |  |
| 1. Smells good
 |  |  |  |  |
| 1. Smells bad
 |  |  |  |  |
| 1. Pointy
 |  |  |  |  |
| 1. Rough
 |  |  |  |  |
| 1. Cold
 |  |  |  |  |
| 1. Tall
 |  |  |  |  |
| 1. Round
 |  |  |  |  |
| 1. Wet
 |  |  |  |  |
| 1. Dry
 |  |  |  |  |
| 1. Soft
 |  |  |  |  |
| 1. Hard
 |  |  |  |  |
| 1. Heavy
 |  |  |  |  |
| 1. Red
 |  |  |  |  |
| 1. Smooth
 |  |  |  |  |
| 1. Tiny
 |  |  |  |  |
| 1. Huge
 |  |  |  |  |
| 1. Fuzzy
 |  |  |  |  |
| 1. Brown
 |  |  |  |  |
| 1. Black
 |  |  |  |  |
| 1. Noisy
 |  |  |  |  |
| 1. Rectangular
 |  |  |  |  |
| 1. With 6 legs
 |  |  |  |  |
| 1. With 4 legs
 |  |  |  |  |
| 1. With 8 legs
 |  |  |  |  |
| 1. With wings
 |  |  |  |  |
| 1. Oval
 |  |  |  |  |

**Questions:**

1. Where did you find he **highest** number of different types **producers**?
2. Where did you find the **highest** number of different types **consumers**?
3. Which area was the closest to a **monoculture? Describe why.**
4. Which area has the most biodiversity? Why do you know that?