**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.

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| --- | --- | --- | --- | --- |
| **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?