Project: Ecological Scavenger Hunt

Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Period: \_\_\_\_ Date Due: \_\_\_\_\_\_\_\_\_\_\_

Partner's Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Background Information**:

If you examine an outdoor ecosystem, you will find autotrophs, heterotrophs, and decomposers forming a variety of food chains and food webs. You may also find evidence of competition for food, space and shelter, and predator-prey relationships. Additionally, you may observe changes in ecosystems as they evolve.

In any outdoor activity, it is important that you disturb the environment as little as possible. When doing this investigation, please follow directions and remain at the stations until you are directed to move on. Your teacher will provide you with specific locations and you should not move into other areas.

**Procedure**:

* You will be doing an ecological scavenger hunt. In most scavenger hunts, you are asked to collect different items. However, to disrupt the wildlife in this area as little as possible, you will do your collecting with a camera, pencil and a notebook.
* Working with your partner, you will take pictures or sketch what you see on today’s field trip as it corresponds to each of the interactions listed below.
* Any picture not obtained on today's field trip must be collected on your own time.
* Your final product will be a digital scrapbook of these pictures with their appropriate captions. Your scrapbook may be in PowerPoint or Prezi file. You will email me a copy of this scrapbook on the due date.
  + You must provide at least a two sentence “caption” of how the picture you took relates to the item from the list.
  + Caption must include date and location
  + Caption must be located on the photograph
  + Your caption must be unique. Although you and your partner may share photos, **you may not share captions.**

Your digital scrapbook must include at least one photo or sketch or each of each of the following:

1. Humans and wildlife share environments
2. People have changed the environment
3. Animals live in or have passed through this area
4. Predator and prey relationships exist in the area
5. Plant disease or insect damage can be seen
6. Simple food chains are seen in this ecosystem
7. Producer
8. Primary consumer
9. Secondary consumer
10. Secondary succession is taking place
11. Primary succession is taking place
12. A landscape where two or more ecosystems interact
13. A single organism
14. A population of organisms of the same species as item j.
15. A community of interacting organisms found in the same location as j. and k.
16. An ecosystem that contains the organism, population and communities of items j, k, and l.
17. Find and describe 4 abiotic factors in one ecosystem you see today.
18. Find and describe 4 biotic factors that you see in one ecosystem today.
19. Evidence that environmental factors have affected an ecosystem.
20. 2 pieces of evidence that you live in a temperate deciduous forest biome.
21. Evidence of cellular respiration (look below your feet.)
22. A photosynthetic autotroph.
23. A heterotrophic organism.
24. An example of an adaptation of an animal.
25. An example of an adaptation of a plant.
26. Evidence of decomposition

|  |  |
| --- | --- |
| **Interaction** | **Caption** |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |
|  |  |