

AP Environmental Science: VOCABULARY ASSIGNMENT

APES COLLECTION

For your vocabulary assignment, you will be familiarizing yourself with science terms that we will be using at different points during the year. You will be “collecting” images throughout the summer by taking digital photographs. Your collection must include **50** items from the list found in this file. You will not use ALL of the terms. You may choose any words in any order as long as you do not repeat any words. Be creative; I know many of you will never be able to photograph some terms such as subsurface mining but you can come up with a clever way to depict it.

Guidelines:

Each item is worth 5 points.

1. It is highly recommended that you collect at least 10 images each week in order to pace yourself on this assignment. You will collect each item by finding it and taking a **photograph** (digital or paper printed). You are required to include a **description** that includes the following (*please use this numbering system in your response to help in the grading process*):

1. what the specimen is
2. where you found it
3. what the term means
4. how it relates to the APES term you chose

This information must be placed into PowerPoint – NO WORD DOCUMENTS.

2. YOU CAN BE CREATIVE:

If you choose an item that is internal to a plant or animal, like the term “cells,” you could submit a photograph of the whole organism or a close-up of one part and then explain on the site *what* a cell is and specifically *where it* is in your specimen. I know many of you will never be able to photograph subsurface mining or photochemical smog, but you can come up with a clever way to depict it.

3. ORIGINAL PHOTOS ONLY:

You **cannot** use an image from any publication or on the Web. You must have taken the photograph yourself. In order to prove the picture is yours, you need to place an item in all of your photographs that only *you* could have added each time, something that you might usually have on you like a pen or a special coin or a key, etc. Use the **same item** in each picture!! **YOU WILL RECEIVE A ZERO IF YOU COPY YOUR IMAGES FROM THE WEB.**

4. NATURAL ITEMS ONLY:

All items must be from something that you have found in nature. Take a walk around your yard, neighborhood, and town. DON'T SPEND ANY MONEY! Research what the term means and in what organisms it can be found... and then go out and find an example.

5. APES COLLECTION VOCABULARY

On the back of this page is the list of items you are to “collect.” An individual organism can only be used **once**.

Projects can either be printed and turned on the first day of school, or the electronic powerpoint presentation can be emailed to me beth.feustel@gwinnett.k12.ga.us.

HAVE FUN WITH THIS ASSIGNMENT!! IT'S GOING TO BE A GREAT YEAR!!

INDIVIDUAL ITEMS

Each specimen is worth 5 points. You MUST collect and post 50 pictures to receive full credit.

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|-----------------------------|---------------------------------|----------------------------|
| 1 Acid rain | 33 Geographic isolation | 65 Primary pollutant |
| 2 Aquaculture | 34 Geosphere | 66 Pyramid of energy flow |
| 3 Aquifers | 35 Greenhouse effect | 67 Renewable resource |
| 4 Area strip mining | 36 Gross Domestic Product (GDP) | 68 Reproductive isolation |
| 5 Autotrophs | 37 Groundwater | 69 Reservoir |
| 6 Biogeochemical cycles | 38 Habitat | 70 Resource |
| 7 Biological evolution | 39 Heterotrophs | 71 Run off |
| 8 Biomass | 40 Hydrosphere | 72 Secondary pollutant |
| 9 Biomes | 41 Hypereutrophic lake | 73 Selective cutting |
| 10 Biophilia | 42 Indicator species | 74 Sink holes |
| 11 Biosphere | 43 Industrial Smog | 75 Species diversity |
| 12 Biotic potential | 44 Keystone species | 76 Stratosphere |
| 13 Cells | 45 Land subsidence | 77 Strip mining |
| 14 Clear cutting | 46 Lichens | 78 Subsistence Agriculture |
| 15 Climax community | 47 Logistic growth | 79 Subsurface mining |
| 16 Commensalism | 48 Malnutrition | 80 Surface mining |
| 17 Conservation | 49 Mimicry | 81 Surface runoff |
| 18 Contour strip mining | 50 Mountain top removal | 82 Surface water |
| 19 Decomposers | 51 Mutualism | 83 Sustainability |
| 20 Density | 52 Native species | 84 Sustainable yield |
| 21 Desertification | 53 Natural selection | 85 Tectonic plates |
| 22 Detritivores | 54 Non- point sources | 86 Trophic level |
| 23 Drought | 55 Non-native species | 87 Troposphere |
| 24 Ecosystem | 56 Non-renewable resource | 88 Water logging |
| 25 Environment | 57 Oligotrophic lake | 89 Water table |
| 26 Environmental indicators | 58 Open pit mining | 90 Watershed |
| 27 Euphotic lake | 59 Over nutrition | 91 Weather |
| 28 Exponential growth | 60 Ozone layer | 92 Weathering |
| 29 Fishery | 61 Parasitism | |
| 30 Foundation species | 62 Photochemical Smog | |
| 31 Genetic diversity | 63 Point sources | |
| 32 Genetic engineering | 64 Population density | |