



Welcome to the Wonderful World of A.P. Environmental Science!

Welcome to A.P. Environmental Science Class! This year we will embark on a purposeful journey as we explore why the way we live is so important! Our class will begin with the following assignment which will be due on the first day of school! Please DO NOT wait until the last minute to complete the assignment. We will have a couple of in class discussions about each topic. Now let's get to the important facts:

1. All assignments are due the first Day of class! (No Exceptions)
2. This assignment will be a Summative assignment and will be entered in the gradebook for 200 pts.

Assignment:

A. Read Garret Hardin's Tragedy of the Commons Essay the link is below:

http://www.garretthardinsociety.org/articles/art_tragedy_of_the_commons.html

- Define Common Resources
- Define Private Resources

- Explain in a two five sentence complete paragraphs what Tragedy Commons is, and what the author was trying to communicate through the article.
- B. Take the ecological footprint quiz using the following link and create a mini poster board displaying the following:
<http://www.earthday.org/take-action/footprint-calculator/>
1. Title ex. (Katrina's Ecological Foot Print)
 2. Define Ecological Footprint
 3. Draw how many worlds that it would take to sustain your lifestyle
 4. Give 3 ways you are living unsustainably
 5. Give 3 ways you could alter your lifestyle to live more sustainably
 6. Draw your ecological footprint chart breakdown.
 7. Draw the global acres needed to support your lifestyle.
(Energy consumed/cropland used/grazing land used/
forestland used/ built-up land used/ fishing grounds used.

*****All posters must have the following details:

- Pictures
- Colored
- Visually Appealing
- Name/Date/ Class Period/
- A copy of your test results attached to the back

C. Explore 3 of the following Environmental Disasters:

1. Exxon Valdez
2. Dust Bowl
3. Coral Bleaching of the Great Barrier Reef

4. Easter Island
5. Love Canal
6. Chernobyl
7. Three-Mile Island
8. Yucca Mountain
9. Aral Sea, Uzbekistan/Kazakhstan
10. Aswan High Dam, Egypt
11. Three Gorges Dam (Dirty)
12. Ogallala Aquifer (depletion)
13. Minamata, Japan (mercury problem)
14. Flint Michigan
15. Earthquakes in Hawaii

Create a mini poster explaining the following associated with your disaster:

1. What happened?
 2. When did the event happen?
 3. Where did the event happen?
 4. What caused the event to happen?
 5. How did it affect the environment?
 6. How the event was considered an anthropogenic affiliated action if caused by humans?
 7. How the event affected biodiversity, and the problem that resulted by a decrease in biodiversity?
- D. Students need to create a chart of the Major classes of air pollutants include carbon, sulfur, and nitrogen oxides, volatile organic compounds, suspended particulate matter, photochemical oxidants, radioactive substances, and hazardous chemicals that can cause health problems. Primary sources of these pollutants include cars, industry, and natural phenomena such as volcanic eruptions.
- Students must do the following for each air pollutant:

1. Give Name
2. Give Abbreviation
3. Give the source (where it comes from) draw a picture
4. Give the effects it has on the human body

E. All about you!!!!!!

-On a standard sheet of paper do the following:

Display your name!!!

Write a one page summary explaining your purpose as a student in this class, and your expectations.

1. Re quote a famous environmentalist quote which has significant meaning to you and this class.

Ex. (“Only within the moment of time represented by the present century has one species -- man -- acquired significant power to alter the nature of the world.”)

— **Rachel Carson, Silent Spring**

2. Give a brief Explanation of your future Occupational Goal and how it connects to this class!

3. Pick one word that describes you!

4. Define a goal you would like to accomplish this year from the education you receive in this class!

*****Put all contents (Except poster) in a 3-pronged folder Labeled A.P. Environmental Summer Assignment with your name date and class period.