APES-Global Climate Change Book Project

You will create a book to teach others about the following topics. You must include a comprehensive page on each topic listed below. This project must be creative, neat, and it should be obvious that a considerable amount of time was spent on it.

Section 1. Ozone Depletion
* Layers of the atmosphere (draw and label a diagram)
* Montreal Protocol (what is it? How does it work?)
* Ground-level Ozone vs. Stratospheric Ozone (compare, explain environmental & health effects of the different types of ozone)
* Solutions to ground level ozone
* Solutions to the hole in the ozone (where is it located and WHY?)

Section 2. Causes of Global Climate Change
* Greenhouse Gasses *(what they are, where do they come from, what percentage)* & Greenhouse Effect
* EPA's regulated air pollutants
* El Nino & La Nina (compare and explain how each effects the environment)
* Major Types of Fuel Types ***(pros and cons** of each; you need to include: oil, natural gas, & coal)*

Section 3. Effects of Global Climate Change
* Climate Change as an example of *Positive Feedback* Loops (explain)
* Industrial vs. Photochemical Smog (with specific examples of each)
* Temperature Changes (with specific example)
* Changes in Precipitation (with specific examples)
* Sea Level Changes (with specific examples)
* Changes in Global Ice (with specific examples)
* Changes in Biota (with specific examples)

* Proxy Indicators *(explain how each of the following helps us understand climate: ice cores, tree cores, ocean sediment, coral, pollen)*

Section 4. Solutions to Climate Change
* Kyoto Protocol *(what is it? Explain the debate over this law)*
* Carbon Offsets
* Major Types of Renewable Fuel Types *(pros and cons tidal & wave energy, geothermal wind, solar energy, hydropower, algae/biofuel)*