**APES- Global Climate Change- Final Report (50 Points)**

This is worth a TEST grade! Due Date: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

You must include a comprehensive page on each topic listed below.

**Section 1. Ozone Depletion**

🡪Layers of the atmosphere

🡪Montreal Protocol (what is it? How does it work?)

🡪Ground-level Ozone vs. Stratospheric Ozone (compare, explain environmental & health effects of ozone)

🡪Solutions to ground level ozone

🡪Solutions to the hole in the ozone (where is it the worst?)

**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

🡪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)

**Summary:**

*What are your thoughts about what you have learned? Summarize the main ideas and key points.*