**Name: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**I can explain how overpopulation impact the environment**

**Overpopulation**

•Too many people living in a particular area

•Overpopulation causes:

**Why is our population increasing so rapidly?**

•

•

* + Machines produce products in large numbers to keep up with the population

**Industrialization**

* Products produced may add quality to people’s lives, but they can also harm the environment – this is a

**Burning of Fossil Fuels**

* **Benefit**:
* **Tradeoff (Cost):**
* **Compromise**: Use “greener” alternatives:

**Air Pollution**

* **Cause**: Burning of fossil fuels to make energy
* **Effect**: Substances like carbon monoxide fill the air of major cities

**Acid Rain**

* **Cause**: to make energy
  + Rain mixes with toxic gases (sulfur dioxide SO2 and nitrogen oxides NOx) in air
* **Effect**: Acidification of lakes and streams causing “fish kills”; damage to tree leaves at high elevations due to acid fog

**Nuclear Power**

* **Benefit**: Produces energy with
* **Tradeoff (Cost):**
* **Compromise**: Use safer alternatives:

**Thermal Pollution**

•**Cause**: Power plants use water to cool turbines and return it to the river at much higher temperatures

•**Effect**: Fish because holds than cold water

**Water Pollution**

* **Cause**: Adding fertilizer to soil which then runs off into lakes
  + Industry/Public adding waste to water
* **Effect**: Sewage acts as fertilizer, makes algae grow

**What is the Solution to These Environmental Problems?**

1. Pass to increase wildlife management, habitat protection, and species preservation
2. Weigh the pros and cons ( ) to any project that may affect the environment