**May Notes: Day 2 Human Impact and the Atmosphere**

Name: Period: Date:

**Aim: How does Human Activity affect the Atmosphere?**

**Objectives:**

* Students will be able to describe how human action may be damaging to the atmosphere

**What is an Atmosphere?**

* The word atmosphere refers to the of gases the Earth. (air)
* This layer of gases is important because it contains the that we use to breath; the that plants use for ; and a layer of gas called (O3) that protects all things from the radiation.
* The also helps all of the many

**Atmospheric Pollution**

* There are two main ways the atmosphere becomes :
  + of fuels
  + (Chlorofluorocarbons)

**Burning Fossil Fuels**

* fuels refers to any fuel that was from the remains of prehistoric . ( , , and Natural )

**The Results of Burning Fossil Fuels**

* Burning fossil fuels produces 3 main :


  + of
* rises up creating a layer which traps from the Earth.
* This trapping of heat is known as the

Under normal conditions: Heat enters the atmosphere but returns to , a stays

With the house : heat is trapped, the overall global

**What’s the deal with warmer temperatures?**

* (also called ) refers to the fact that the planet’s is
* Gases in our atmosphere ( ) trap (this is called the **greenhouse effect**

**How do we know that a greenhouse effect is occurring?**

* The global temperature has been rising for years.
* With the introduction of in the 1800’s (the Industrial Revolution), has also been

**Why is global warming a problem?**

* Cause species to go extinct (if their habitat becomes too hot, the ecosystem will be destroyed)
* Causes and storms (Harvey, Irma and Maria )
* Cause the level to

**Acid Rain**

* and oxides of nitrogen combine with the water in the atmosphere.
* When it rains, the sulfur dioxide and oxide of nitrogen lowers the of the rain creating Acid Rain.
* Acid rain can many things such as , and statues.

**CFCs (chlorofluorocarbons)**

* CFCs are chemicals used in , , units and polystyrene foam. When the CFC enters the atmosphere it attacks the layer; creating .
* The ozone layer is a layer of that much of the sun’s harmful (ultraviolet light).
* When are created in the layer, high levels of can reach the Earth’s surface.
* UV light increases the rates in skin cells (skin )
* UV Rays off the layer. A small amount does get through.
* UV Rays bombers the Earth damaging found in the skin, causing skin cancer