

What does the UV stand for in the term UV radiation?

- a) Uranium-Vanadium
- b) Ultra-violet
- c) Ultra Viscosity

The air is mostly made out of which gas?

- a) Nitrogen
- b) Oxygen
- c) Hydrogen

**What causes Acid Rain?**

- a) The Weather Man
- b) Air Pollution
- c) The Sun

**Which gas released by cars and other vehicles does NOT pollute the air?**

- a) Hydrocarbons
- b) Carbon Monoxide
- c) Caroxide

### **(B) Ultra-violet**

Too much Ultra-violet radiation can cause skin cancer and harm plants and animals.

### **(A) Nitrogen**

The air around us is 78% Nitrogen and only 21% Oxygen. The rest consists of "other gases."

### **(B) Air Pollution**

Acid rain can kill plants, hurt fish, and erode buildings.

### **(C) Caroxides**

Caroxides are not a real gas. Hydrocarbons are one of the causes of smog. Carbon Monoxide has no color or smell, but it still hurts the air.

What protects the Earth and people from harmful UV radiation?

- a) The Ozone Layer
- b) Greenhouse Gases
- c) Superman

What kinds of gases are damaging the Ozone Layer?

- a) Destructors
- b) CFCs
- c) Farts and burps

Why are sunglasses important to our health?

- a) They protect our eyes from UV rays
- b) They make us look cool
- c) They're not important

What does NOAA stand for?

- a) **Nitrogen Oxygen Argon Acids**
- b) **National Oceanic and Atmospheric Administration**
- c) **Never Operate An Airplane**

### **(A) The Ozone Layer**

Earth could not exist without the Ozone Layer's protection from harmful UV rays.

### **(B) CFCs**

CFCs: Chloro-Fluoro-Carbons  
CFCs are used in some spray cans, refrigerators, air conditioners, and fire extinguishers.

### **(A) They protect our eyes from UV rays**

Although sunglasses do make us look cool, they can also protect our eyes from harmful UV radiation.

### **(B) National Oceanic and Atmospheric Administration**

NOAA is a federal government agency dedicated to environmental research.

What is used to measure rainfall?

- a) A rain gauge
- b) A thermometer
- c) A scale

An increase in Earth's temperature is called what?

- a) Global Fever
- b) Overheating
- c) Global Warming

Snowing in Hilo is an example of what scientific event?

- a) Climate Change
- b) A miracle
- c) Christmas

How big is the Ozone Hole?

- a) There is no hole, the Ozone is perfect
- b) The size of a car
- c) The size of the U.S.A.

**(A) A rain Gauge**

A rain gauge measures how much rain falls in one area.

**(C) Global Warming**

When the Earth's average temperature gets hotter, it's called Global Warming.

**(A) Climate Change**

Climate change is when the weather pattern of an area changes dramatically.

**(C) The size of the U.S.A**

The hole in the Ozone Layer is as big as the United States of America!

What does MLO stand for?

- a) Mauna Loa Observatory
- b) Mountain Lion Oranges
- c) My Little Orangutan

The Ozone Hole is located over which continent?

- a) Tokyo
- b) Antarctica
- c) California

What does Mauna Loa mean in Hawaiian?

- a) Macadamia Nut
- b) Volcano
- c) Long Mountain

What does MLO study?

- a) Animals
- b) Causes of Climate Change
- c) Outer Space

### **(A) Mauna Loa Observatory**

MLO is short for Mauna Loa Observatory.

### **(B) Antarctica**

There is a giant hole in the Ozone Layer over Antarctica. This is a big problem.

### **(C) Long Mountain**

Mauna Loa is the largest VOLCANO on earth.

### **(B) Causes of Climate Change**

MLO studies the changes in Earth's climate. They also study the atmosphere and the Ozone.

\*\*\*Mauna Kea studies astronomy and space. It is not associated with MLO

What layer of the atmosphere is closest to Earth?

- a) Closeosphere
- b) Troposphere
- c) Earthosphere

You can help slow global warming by

- a) Walking or riding your bike
- b) Planting trees
- c) Both the above

You can get a sunburn

- a) at night
- b) inside your house
- c) on a cloudy day

Before going outside in the sun, you should

- a) Clean the house
- b) Apply sunscreen
- c) Do your homework

### **(B) Troposphere**

The Troposphere is about 0-8 miles above the Earth's surface.

### **(C) Both the above**

You can help slow global warming by walking, riding your bike, or taking the bus instead of always going by car. You can plant trees to help absorb the extra CO<sub>2</sub>.

### **(C) On a cloudy day**

Clouds help to reduce UV rays, but they do not block them completely. Depending on how thick the clouds, it is possible to burn on a cloudy day even if it does not feel hot.

### **(B) Apply sunscreen**

Sunscreen helps block UV rays. You should always use sunscreen that is number 15 or higher.