**Guided Notes: The Atmosphere**



The atmosphere is composed of different \_\_\_\_\_\_\_\_ that impact Earth's \_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_.

**Key Concepts:**

• The atmosphere extends from Earth's surface into \_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_.

• The layer closest to Earth's surface is called the \_\_\_\_\_\_\_\_.

• Most weather occurs in the \_\_\_\_\_\_\_\_.

• The \_\_\_\_\_\_\_\_ contains the ozone layer which absorbs ultraviolet radiation.

• Temperature \_\_\_\_\_\_\_\_ with altitude in the stratosphere.

• The \_\_\_\_\_\_\_\_ is the middle layer where temperature decreases with altitude.

• The \_\_\_\_\_\_\_\_ is the hottest layer and absorbs X-rays and gamma rays.

• The outermost layer is the \_\_\_\_\_\_\_\_, where particles may escape into space.

• The atmosphere absorbs, reflects and redistributes \_\_\_\_\_\_\_\_ energy from the sun.

• \_\_\_\_\_\_\_\_ is the transfer of energy by particle movement in fluids like air.

• \_\_\_\_\_\_\_\_ refers to atmospheric conditions at a specific time and place.

• \_\_\_\_\_\_\_\_ is the long-term pattern of atmospheric conditions in an area.

**Real World Examples:**

1. Sunburn: The ozone layer in the \_\_\_\_\_\_\_\_ protects us from harmful ultraviolet rays that can cause sunburn. That's why it's important to wear sunscreen, especially when the ozone layer is thinner.

2. Auroras: The colorful northern and southern lights occur in the \_\_\_\_\_\_\_\_ layer of the atmosphere when charged particles from the sun interact with gases.

**Word Bank:**

Layers

weather

climate

outer space

troposphere

stratosphere

increases

mesosphere

thermosphere

exosphere

solar

convection

weather

climate

stratosphere

thermosphere

troposphere