

Name \_\_\_\_\_

Per \_\_\_\_\_

Due: \_\_\_\_\_

## The Atmosphere

### Subunit: Atmospheric composition and layers

**Objective 7.e.1.1** \_\_\_\_\_ the \_\_\_\_\_, properties and structure of Earth's \_\_\_\_\_ to include: mixtures of gases and differences in temperature and pressure within layers.

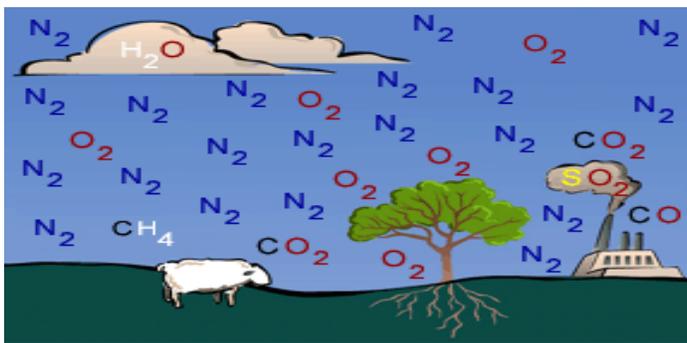
### What is atmosphere, and what are atmospheric gasses?

**Atmosphere:** a \_\_\_\_\_ of air or ( \_\_\_\_\_ ) surrounding the earth. This air is made up of \_\_\_\_\_ (78%), \_\_\_\_\_ (21%), \_\_\_\_\_ (less than 1%), \_\_\_\_\_ (less than 1%) and others.

\_\_\_\_\_ are also a part of the atmosphere. The atmosphere is \_\_\_\_\_ to our \_\_\_\_\_ and \_\_\_\_\_ on earth.

What is the most abundant gas in our atmosphere? \_\_\_\_\_.

### To remember the composition of the gasses in the atmosphere.



Remember! **Never open canned worms**

Never ( \_\_\_\_\_ )

Open ( \_\_\_\_\_ )

Canned (Carbon Dioxide)

Worms (Water vapor)

How earth's atmosphere compares to others

### How is the atmosphere divided?

The atmosphere is divided into \_\_\_\_\_ distinct layers.

From closest to earth the layers are \_\_\_\_\_, \_\_\_\_\_, \_\_\_\_\_.

The outermost layer is known as the \_\_\_\_\_ and extends beyond the \_\_\_\_\_ to include space. We do \_\_\_\_\_ know where the exosphere ends. Each layer is separated by a line known as a \_\_\_\_\_.



To remember the layers of the atmosphere Remember! **The Sand Man Took Elmo**

\_\_\_\_\_ (Troposphere)

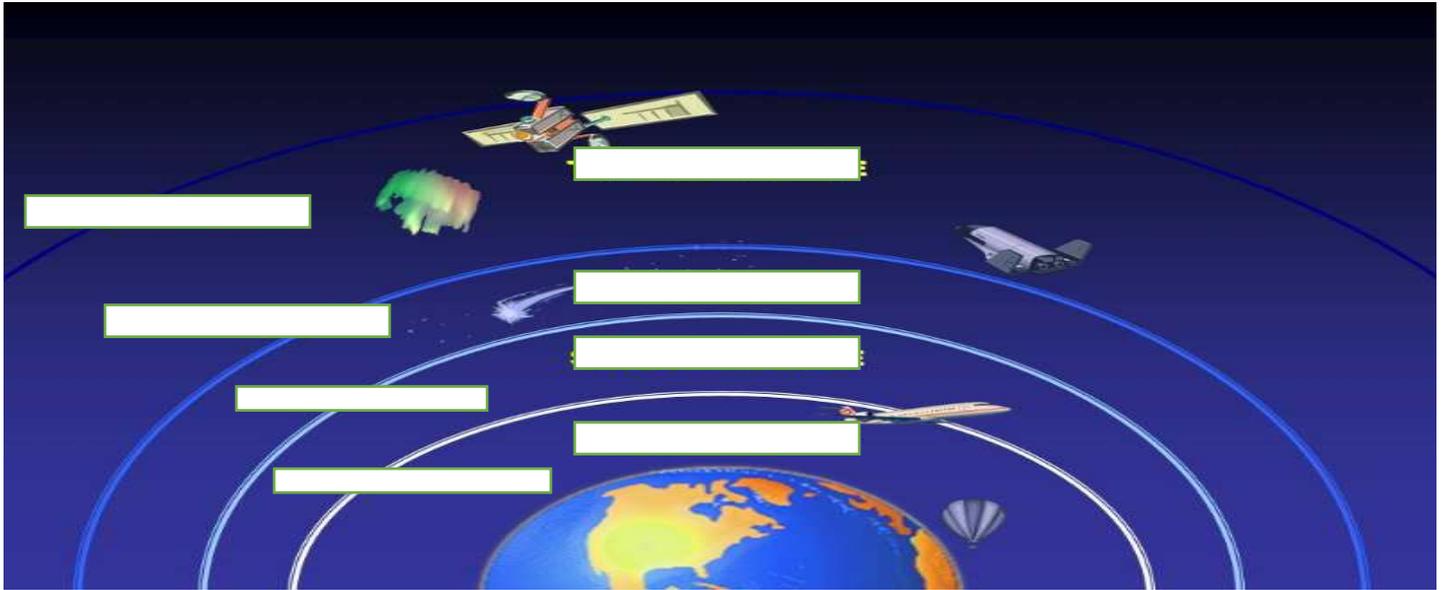
\_\_\_\_\_ (Stratosphere)

\_\_\_\_\_ (Mesosphere)

\_\_\_\_\_ (Thermosphere)

\_\_\_\_\_ (Exosphere)

**Label the Layers and pauses below.**



The \_\_\_\_\_ - This is the \_\_\_\_\_ level of the atmosphere, it contains \_\_\_\_\_ and buildings. All \_\_\_\_\_ occurs in this layer. It extends to about \_\_\_\_\_ above \_\_\_\_\_. The temperature ranges from about \_\_\_\_\_ °C to \_\_\_\_\_ °C. This layer ends at the \_\_\_\_\_. Bad ozone is found in this layer.



The \_\_\_\_\_ Contains: \_\_\_\_\_ (The good ozone) layer which is a \_\_\_\_\_ layer that absorbs \_\_\_\_\_ light from the sun. Flying \_\_\_\_\_, and \_\_\_\_\_ Balloons. Here you are \_\_\_\_\_ the \_\_\_\_\_ only the largest thunderstorms reach up here. This layer ends at the \_\_\_\_\_.



The \_\_\_\_\_ “Meso” means \_\_\_\_\_ it is the middle layer! Outer parts of Mesosphere are the \_\_\_\_\_ parts of the entire Atmosphere. Meteors burn up in this level, often giving off the look of a shooting star. The mesosphere is one of Earth’s \_\_\_\_\_ layers. It ends at the \_\_\_\_\_.

The \_\_\_\_\_ - Air is very \_\_\_\_\_ - Low Density. \_\_\_\_\_ Layer (1800 C) due to the sun’s heat. The Ionosphere is found within this layer. \_\_\_\_\_ waves bounce off ions in this layer. Aurora Borealis- \_\_\_\_\_ glow from ions and sunlight. The layer ends at the \_\_\_\_\_.

The \_\_\_\_\_ Begins at the thermopause. Some \_\_\_\_\_ orbit here. For example \_\_\_\_\_ and \_\_\_\_\_ signals are sent this high Where does it end? There is no clear line that says okay you are in space now. We don’t know!