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.

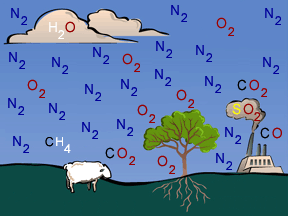
**What is atmosphere, and what are atmospheric gasses?**

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 does earth’s atmosphere compare 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 thermosphere 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)

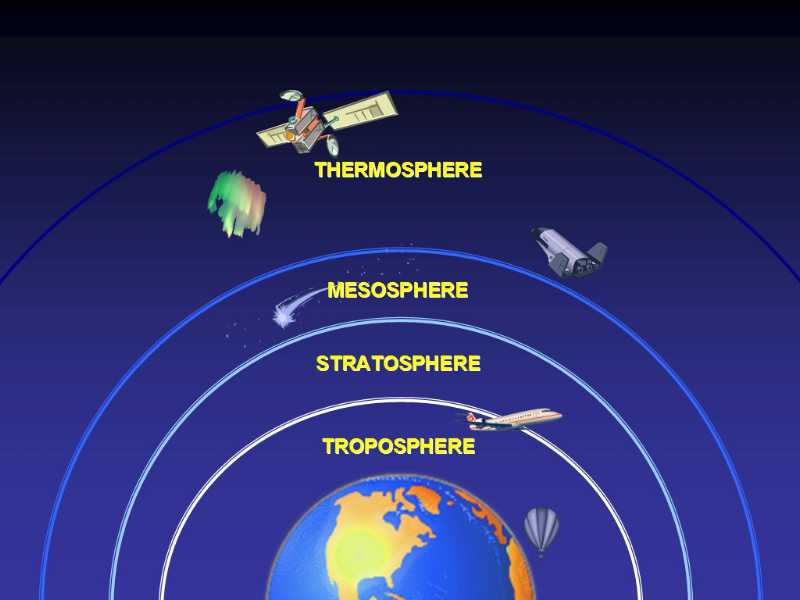
\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (Stratosphere)

\_\_\_\_\_\_\_\_\_\_\_\_\_\_ (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 \_\_\_\_\_\_0C to \_\_\_\_\_\_\_\_\_0C. 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!