Earth’s Atmosphere

1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a thin layer of air that protects Earth’s surface from extreme temperatures and harmful sun rays.

Earth’s atmosphere is made up of :

A\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, such as dust volcanic ash, pollen and ocean salt.

B\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, such as nitrogen and oxygen.

C.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ water and water droplets.

**5 layers of the Atmosphere:**

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the **lowest layer and densest layer** of the atmosphere, **where humans live** and extends about 10 km up and contains most of the water vapor and gases. **All weather occurs in this layer** of the troposphere.
2. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_is the layer of the atmosphere that **contains the ozone layer,** which protects us from harmful radiation.
3. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the layer of the atmosphere in which meteors are visible, as you go up in altitude in this layer the colder it gets.
4. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the thickest layer of the atmosphere and is called this because of its high temperatures.

4A.Within the mesosphere and the thermosphere is a layer of charged particles called the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ that can carry radio waves and contains nitrogen and oxygen atoms that absorb harmful solar energy such as x- rays and gamma rays.

1. The \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is the outermost layer of the atmosphere in which the space shuttle flies and has very few molecules in it.

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ The force with which air molecules push on a surface. The pressure near the surface is higher because there are more molecules closer to the surface and are more densely packed exerting more force than higher in the atmosphere.