**Earth’s Atmosphere – Brain Pop**

**1. The atmosphere is made up of a mixture of gasses, mostly *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*(78%) and oxygen (21%) that wrap around the earth like a blanket.**

**2. The gasses in the atmosphere *\_\_\_\_\_\_\_\_\_\_\_*us by blocking out dangerous rays from the sun, making Earth a perfect *\_\_\_\_\_\_\_\_\_\_\_\_\_\_* for plants and animals.**

**3. The Earth’s atmosphere has *\_\_\_\_\_* layers; the troposphere, the stratosphere, the mesosphere, the *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*, and the exosphere.**

**4. Atmospheric gasses become *\_\_\_\_\_\_\_\_\_\_\_\_\_\_*the higher up you go.**

**5. The troposphere is the lowest layer and known as the *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* Layer.**

**6. The troposphere extends *\_\_\_\_\_\_\_\_\_\_* km above ground at the equator and *\_\_\_\_\_\_* km at the poles.**

**7. From the top of the troposphere to *\_\_\_\_\_\_\_*km above ground is the second layer, Earth’s *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* where the temperatures increase with altitude.**

**8. In this layer, it starts out at minus *\_\_\_\_\_\_\_* degrees Celsius at the bottom, and then warms to about *\_\_\_\_\_\_\_\_\_\_\_\_\_\_* (0 degrees Celsius).**

**9. The stratosphere is heated from above by the sun’s ultraviolet *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*.**

**10. The *\_\_\_\_\_\_\_\_\_\_\_\_\_ \_\_\_\_\_\_\_\_\_\_\_\_* is found in the stratosphere.**

**11. Ozone is a gas that *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* harmful UV rays and protects us from too much solar radiation.**

**12. Pollution has created *\_\_\_\_\_\_\_\_\_\_\_* in the ozone layer over the North and South Poles.**

**13. The MESOSPHERE is found starting at *\_\_\_\_\_\_\_\_* km above ground.**

**14. The atmosphere reaches its *\_\_\_\_\_\_\_\_\_\_\_\_\_* temperature of around minus 90 degrees Celsius in the Mesosphere.**

**15. In the Mesosphere a lot of *\_\_\_\_\_\_\_\_\_\_\_\_\_* disintegrate (burn up) from friction while entering the earth’s atmosphere.**

**16. The thermosphere is the fourth layer of the earth’s atmosphere and also the *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.***

**11. The air is so *\_\_\_\_\_\_\_* that not much solar radiation can be absorbed.**

**12. In the thermosphere temperatures climb to almost *\_\_\_\_\_\_\_\_\_\_\_* degrees Celsius.**

**13. The thermosphere also includes the *\_\_\_\_\_\_\_\_\_\_\_\_\_*which is a region of the atmosphere that’s filled with charged particles.**

**14. The *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_* starts about 500 km above Earth and is the highest layer of our atmosphere,**

**15. The exosphere is not *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_*, there the atmosphere becomes very thin and gas molecules can escape into space.**

**16. The sky is *\_\_\_\_\_\_\_\_\_\_\_\_* because light has different colors based on its wavelength.**

**17. The gases in our atmosphere *\_\_\_\_\_\_\_\_\_\_\_\_* certain wavelengths of light and let others pass right through.**

**18. Blue light is scattered by the gases in our atmosphere, making our sky appear to be *\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.***