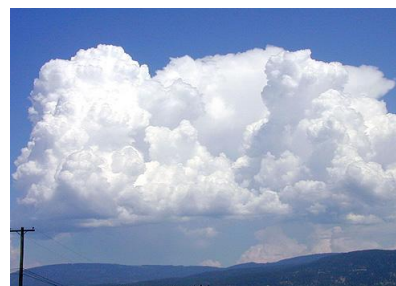


## Bill Nye the Science Guy: Atmosphere *Video Worksheet*



### ANSWER WHILE WATCHING:

1. "Atmosphere" is a fancy way of saying the \_\_\_\_\_ that covers the earth.
2. The ozone layer blocks out \_\_\_\_\_ light
3. Air is an invisible mixture of \_\_\_\_\_.
4. Air acts like a \_\_\_\_\_, keeping the earth warm.
5. The moon lost its volcanic \_\_\_\_\_ because of its weak gravity.
6. All of the earth's weather happens in the \_\_\_\_\_.
7. An altimeter is a device that determines \_\_\_\_\_ by measuring air pressure.
8. As altitude increases, air pressure \_\_\_\_\_.
9. \_\_\_\_\_ Valley is at a very low altitude, so the air pressure there is high.
10. If you go up in an unpressurized airplane, you might feel your ears \_\_\_\_\_.
11. The exosphere is on the edge of \_\_\_\_\_.
12. The thermosphere blocks out \_\_\_\_\_ rays
13. The mesosphere vaporizes \_\_\_\_\_ most of the time before they hit the ground.
14. Ironically, the \_\_\_\_\_ is the coolest layer.
15. The stratosphere contains the \_\_\_\_\_ layer, which shields us from ultraviolet light.
16. The troposphere is the lowest layer of the \_\_\_\_\_.
17. A fluffy jacket keeps you warm by holding a body of dead \_\_\_\_\_ against your body.
18. The "lapse rate" in the troposphere is about 5.5°C (???) per \_\_\_\_\_ of altitude.
19. The \_\_\_\_\_ effect keeps the earth warm.

20. The glass of a greenhouse \_\_\_\_\_ infrared heat back onto the plants inside.
21. Photochemical smog is created by \_\_\_\_\_ reacting with car exhaust.
22. Coal has \_\_\_\_\_ in it, so when it's burned it makes acid rain.
23. Sulfuric \_\_\_\_\_ can turn sugar into a spongy black mass of carbon.
24. The troposphere is only \_\_\_\_\_ kilometers thick.
25. Clouds and \_\_\_\_\_ are found only in the troposphere.
26. As you get higher in the atmosphere, the air gets thinner and there's less \_\_\_\_\_ to breathe.

**ANSWER AFTER WATCHING:**

Draw a diagram of the layers of the atmosphere. Label altitudes wherever known. Also label what is special about each layer.