

Bill Nye the Science Guy: Atmosphere Viewing Guide



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 _____ against your body.
18. The "lapse rate" (the rate at which air temperature falls with increasing altitude) 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.

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ANSWER AFTER WATCHING:

Draw a diagram of the layers of the atmosphere. Label what is special about each layer. Write a caption explaining why the atmosphere is important. Use one laptop per group for research.