

Body Atlas Video Worksheet
“The Breath of Life”- Respiratory System

1. Breathing in oxygen reacts in the body to produce _____ and _____.
2. _____ carries oxygen to the 60 trillion cells of the body.
3. The lungs fill _____% of the chest.
4. Blood vessels line the lungs and absorb oxygen from the _____.
5. Air contains 50 times more oxygen than _____.
6. When we breathe in, _____ between the ribs pull the rib cage up.
7. A dome shaped muscle below the lungs, the _____, moves down.
8. When we breathe out, we simply let the muscles _____.
9. The journey of each lung full of air starts in the _____.
10. _____ provide the first line of defense by trapping pollen and dirt.
11. Special glands secrete _____, a sticky liquid which traps dust.
12. A carpet of microscopic hairs propels the mucous back into the _____.

13. The passages from _____ to _____ join at the back of the throat.
14. The _____ prevents food or water from going down the wrong way.
15. The windpipe is reinforced with stiff rings of _____ to keep it permanently open.
16. We pump one _____ of air in and out of our lungs with each breath, _____ times a minute.
17. During an average lifetime, _____ (number) million cubic feet of air passes through the lungs.
18. With each breath, the lungs take in _____ (number) trillion molecules of air.
19. Only _____ (number) of the air (we breathe) are oxygen molecules.

20. Branching air passages end in tiny tubes draped with miniature air bags called _____.
21. We each have _____ (number) million alveoli.
22. Alveoli diameters are _____ (number) of an inch across.
23. Alveoli _____ are only a few millionth of an inch thick.
24. One half of the _____ is engaged solely in pumping blood to and from the lungs.
25. Tiny _____ are wrapped tightly around each individual air sac.
26. Oxygen in the alveoli crosses to the surrounding blood where it combines with _____.
27. _____ is packaged in special cells called the red blood corpuscle (cell).
28. The _____ automatically controls breathing.
29. The buildup of _____, a waste gas in the blood, tells the brain when the body needs to breathe more heavily.
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30. The _____ a high altitude causes problems too due to the lack of oxygen.
31. _____ are the first to feel the lack of oxygen.
32. Increasing altitude lowers the _____ of water.
33. At a pressure equivalent to 60,000 feet above sea level, our blood would boil at _____.
34. _____ is an essential part to Earth's thin mantle of air.