Name\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Date \_\_\_\_\_\_\_\_\_\_\_\_\_\_

The Respiratory System

1. The process by which oxygen and carbon dioxide are exchanged between the lungs and the environment is known as \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

2. What is the basic function performed by the human respiratory system?

3. Label each of the following structures in the drawing of the human respiratory system: nose,

pharynx, larynx, trachea, bronchus, and lung.



4. What prevents food from entering your trachea?\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

5. Gas exchange occurs in the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

6. Describe the process of gas exchange.

7. Why is hemoglobin needed?

8. The large, flat muscle at the bottom of the chest cavity is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

9. What happens when pressure in the chest cavity becomes greater than atmospheric pressure?

10. The part of the brain that controls breathing is the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

11. List three of the most dangerous substances in tobacco smoke.

|  |
| --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |

12. Why is carbon monoxide dangerous?

13. List three respiratory diseases caused by smoking.

|  |
| --- |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |
| 1. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
 |

Match each structure of the respiratory system with its description.

|  |  |  |
| --- | --- | --- |
| \_\_\_\_\_ | 1. Pharynx
 | 1. Tiny air sacs where gas exchange occurs
 |
| \_\_\_\_\_ | 1. Trachea
 | 1. Tiny projections that sweep trapped particles & mucus away from the lungs
 |
| \_\_\_\_\_ | 1. Cilia
 | 1. Tube that serves as a passageway for both air & food
 |
| \_\_\_\_\_ | 1. Larynx
 | 1. Large passageways in the chest that lead to the lungs
 |
| \_\_\_\_\_ | 1. Bronchi
 | 1. Structure at the top of the trachea that contains the vocal cords
 |
| \_\_\_\_\_ | 1. Alveoli
 | 1. Passageway between the pharynx & bronchi
 |

Label the Respiratory System

