

Review of Alveoli: Tiny Gas Exchange Stations

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Understanding the Respiratory System

Name: _____

Date: _____

Answer the following questions based on what you learned about alveoli and the respiratory system.

1. What are alveoli and why are they important for gas exchange?

2. How many alveoli are estimated to be in each lung?

- A. 100 million
- B. 300 million
- C. 500 million

3. Alveoli are large enough to be seen without a microscope.

True False

4. Alveoli are so small that ____ could fit on the head of a pin.

5. What happens to oxygen once it enters the alveoli?

6. What gas do alveoli help remove from the bloodstream?

- A. Oxygen
- B. Nitrogen
- C. Carbon dioxide

7. The design of the alveoli shows how intentional God's creation is.

True False

8. How does understanding the function of alveoli enhance your appreciation for human design?

9. The process of gas exchange occurs in the ____ of the lungs.

10. What might happen if alveoli didn't function correctly?

- A. Increased energy
- B. Breathing problems
- C. Better oxygen transport

Answer Key

1. Alveoli are tiny air sacs in the lungs that allow oxygen to enter the bloodstream and carbon dioxide to be removed. They are important because they facilitate the process of breathing and maintaining life. 2. 300 million 3. False 4. 10 5. Once oxygen enters the alveoli, it passes through the walls of the alveoli into the bloodstream. This oxygen is then transported to different parts of the body. 6.

Carbon dioxide 7. True 8. Understanding how alveoli work helps me see the complexity and efficiency of the human body. It shows how every part has a specific purpose, reflecting God's amazing design. 9. alveoli 10. Breathing problems