

Gas Exchange in the Alveoli

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Understanding the Respiratory System

Name: _____

Date: _____

Answer the following questions based on what you learned about alveoli and gas exchange.

1. What are alveoli?
 - A. Large air sacs
 - B. Tiny air sacs smaller than a grain of rice
 - C. Blood vessels
2. Oxygen moves from the air into the blood through the walls of the alveoli.
 True False
3. Carbon dioxide moves from the blood back into the air to be ____.
4. Why do you think God designed such tiny structures as alveoli?

5. How does oxygen enter our bloodstream?
 - A. It dissolves in water
 - B. It moves through thin membrane walls of alveoli
 - C. It is absorbed by skin
6. The process of gas exchange occurs in the alveoli.
 True False

7. Describe one way that the alveoli are important for our whole body.

8. Psalm 139:14 reminds us that we are ____ and wonderfully made.

9. What happens to carbon dioxide in the alveoli?
 - A. It enters the blood
 - B. It is exhaled
 - C. It is turned into oxygen

10. How does understanding the design of alveoli help us appreciate God's creation?

Answer Key

1. Tiny air sacs smaller than a grain of rice 2. True 3. exhaled 4. Because their small size allows for a large surface area for gas exchange, making it efficient for our body. 5. It moves through thin membrane walls of alveoli 6. True 7. Alveoli allow oxygen to be delivered to our blood, which is essential for all our organs and cells to function properly. 8. fearfully 9. It is exhaled 10. It shows us how complex and wonderful our bodies are, reflecting God's creativity and care in making us.