

GAS EXCHANGE

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Instructions

Watch the video, and answer the following questions:

1. The alveoli are located at the end of (circle one)...

the trachea the bronchi blood capillaries the bronchioles

2. Complete the sentences below about the exchange of gases. Choose from the list of words below.

carbon dioxide active transport oxygen water vapour osmosis
diffusion nitrogen respiration

....., which is essential for respiration, enters by breathing in.

....., a waste product of respiration, exits the blood capillaries and then exits the lungs by breathing out. These gases move across the membranes by the process of

3. With reference to cells, how wide are the walls of the alveoli?

4. Through how many cell membranes must an oxygen molecule travel to go from air to the inside of a red blood cell?

5. How is a steep concentration gradient for oxygen maintained?

6. List 5 ways in which the gas exchange surface is adapted for its function.

1.

2.



- 3.
- 4.
- 5.

