

# ACE Biology Guided Reading: Chapter 5: Mammalian Gas Exchange

(Use the new coursebook)

## 1. Student Questions (Chapter 5:20-21)

Question 1: Misconception of air volume

Question 2: Misconception of volume of air flow

### 2.

a. Why does the volume of the air flow in the lungs stay the same?

b. Why does the volume of the air flow in the lungs stay the same?

### 3. What are the parts of the gas exchange system? (20)

Answer: The parts of the gas exchange system are the trachea, bronchi, bronchioles, alveoli, and capillaries.

### 4. Complete the diagram and label the parts of the respiratory system. (20)



Answer: The parts of the respiratory system are the trachea, bronchi, bronchioles, alveoli, and capillaries. The trachea and bronchi are pink, the bronchioles are green, and the alveoli are yellow.

### 5. What are the parts of the gas exchange system? (20)

Answer: The parts of the gas exchange system are the trachea, bronchi, bronchioles, alveoli, and capillaries. The trachea and bronchi are pink, the bronchioles are green, and the alveoli are yellow.

### 6. Describe the structure and function of the trachea. (20)

Answer: The trachea is a large, rigid tube that carries air from the lungs to the rest of the body. It is lined with cilia (tiny hair-like structures) that help to move mucus and trapped particles out of the lungs. The trachea is also supported by cartilage to prevent it from collapsing.

### 7. Describe the structure and function of the alveoli. (20)

Answer: The alveoli are tiny air sacs at the end of the bronchioles. They are where gas exchange takes place. The alveoli are surrounded by a network of capillaries, which allows oxygen to move from the alveoli into the blood and carbon dioxide to move from the blood into the alveoli.

### 8. Student Questions (Chapter 5:22-23)

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