



13

THE RESPIRATORY SYSTEM

Body cells require an abundant and continuous supply of oxygen to carry out their activities. As cells use oxygen, they release carbon dioxide, a waste product that must be eliminated from the body. The circulatory and respiratory systems are intimately involved in obtaining and delivering oxygen to body cells and in eliminating carbon dioxide from the body. The respiratory system is responsible for gas exchange between the pulmonary blood and the external environment (that is, external respiration). The respiratory system also plays an important role in maintaining the acid-base balance of the blood.

Questions and activities in this chapter consider both the anatomy and physiology of the respiratory system structures.

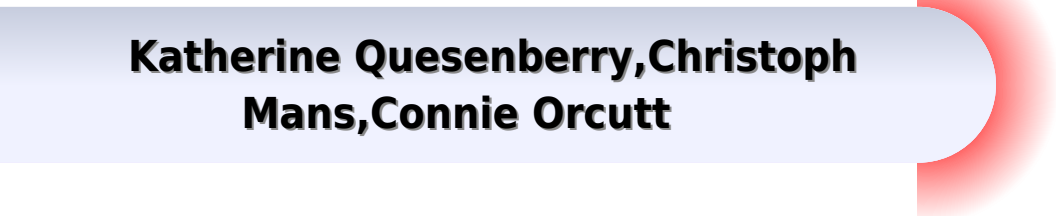
FUNCTIONAL ANATOMY OF THE RESPIRATORY SYSTEM

1. The following questions refer to the primary bronchi. In the spaces provided, insert the letter *R* to indicate the right primary bronchus and the letter *L* to indicate the left primary bronchus.

1. Which of the main bronchi is larger in diameter? _____
2. Which of the main bronchi is more horizontal? _____
3. Which of the main bronchi is the most common site for lodging of a foreign object that has entered the respiratory passageways? _____

Anatomy And Physiology Respiratory System Workbook

**Katherine Quesenberry, Christoph
Mans, Connie Orcutt**



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Structure and function of the respiratory system
Elastic properties of the respiratory system
Airflow and resistance in the respiratory system
Pulmonary Ventilation
Diffusion of Gases between air and blood
The Pulmonary Circulation
Carriage of gases by the blood and acid base balance
Nervous control of breathing
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