

# 34 Circulatory, Respiratory, and Excretory Systems

## 2 Respiratory System

TEKS 10(A)

### MAIN IDEA

Write the Main Idea for this lesson.

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### REVIEW VOCABULARY

ATP

Recall the definition of the Review Vocabulary term.

ATP

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### NEW VOCABULARY

breathing

external respiration

internal respiration

trachea

bronchus

lung

alveolus

Use your book to define each term.

breathing

external respiration

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internal respiration

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trachea

bronchus

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lung

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alveolus

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## 2 Respiratory System (continued)

*Student Edition,*  
pp. 1000–1004

*Reading Essentials,*  
pp. 405–407

**Contrast** breathing and respiration.

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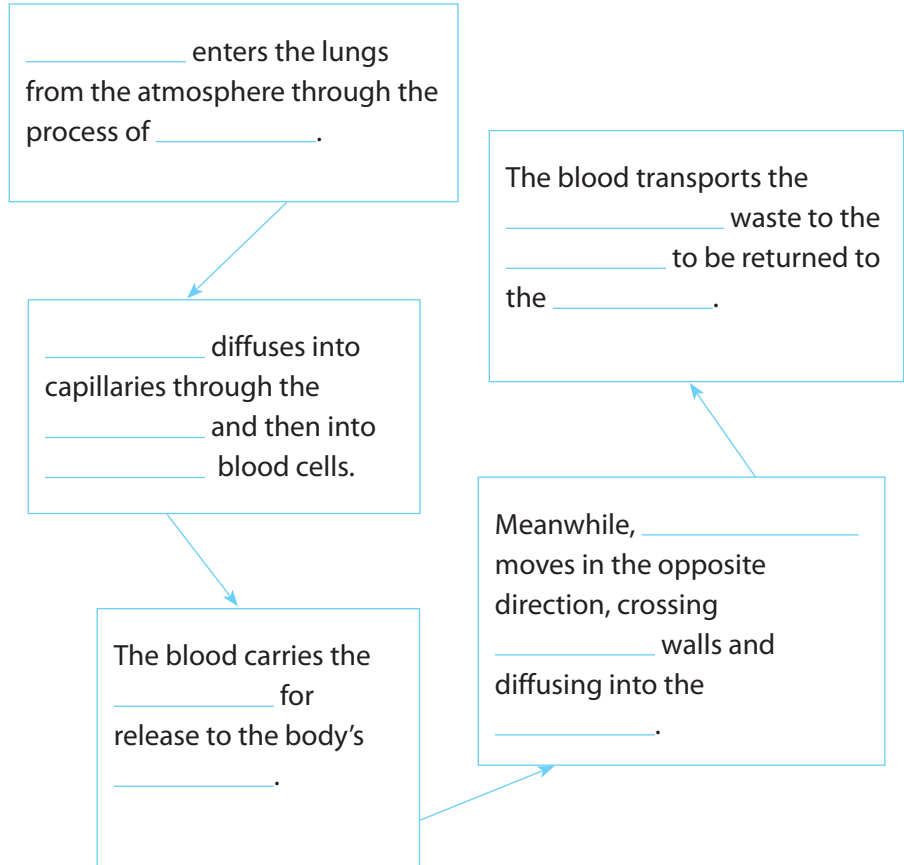
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**Identify** three structures that filter air as it enters through the nose on its way to the lungs.

1. \_\_\_\_\_
2. \_\_\_\_\_
3. \_\_\_\_\_

**Sequence** the process of gas exchange by completing the sentences in the flow chart below.



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## 2 Respiratory System (continued)

**Model** the lungs during inhalation and exhalation. Label and describe the position of the diaphragm during each process.

Inhalation	Exhalation

**Summarize** each of the following common respiratory disorders.

Respiratory Disorder	Description
Pneumonia	
Emphysema	
Lung cancer	
Asthma	
Bronchitis	
Pulmonary tuberculosis	

### SUMMARIZE

**Discuss the importance of respiration to the body.**

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## 2 Respiratory System (continued)

### REVIEW IT!

1. **MAIN IDEA** Identify the main function of the respiratory system.

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2. **Distinguish** between internal and external respiration.

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3. **Sequence** the path of air from the nasal passages to the bloodstream.

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4. **Describe** the mechanics of inhalation and exhalation.

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5. **Infer** how the respiratory system would compensate for a circulatory disorder.

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6. **Describe** three disorders of the respiratory system.

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## 2 Respiratory System (continued)

7. **Hypothesize** an advantage of heating and moisturizing air before it reaches the alveoli.

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8. The total surface area of the alveoli tissue in your lungs is approximately  $70 \text{ m}^2$ . This is more than 40 times the surface area of the skin. What is the surface area of your skin?

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