



# Body Systems and Senses

Name: \_\_\_\_\_

Date: \_\_\_\_\_

Grade: Grade 4

## Part A: Multiple Choice

Circle the best answer for each question.

1. Which body systems work together when you run after a ball?

- A) Only the muscular system
- B) Nervous, muscular, skeletal, respiratory, and circulatory systems
- C) Only the digestive system
- D) Only the nervous system

2. When you smell cookies and your mouth waters, which systems are working together?

- A) Skeletal and muscular only
- B) Nervous and digestive systems
- C) Respiratory and skeletal only
- D) Circulatory and skeletal only

3. Which statement about reflexes is correct in Grade 4 science?

- A) Reflexes happen only after the brain finishes thinking
- B) Reflexes can act through the spinal cord before the brain processes the event
- C) Reflexes use only bones
- D) Reflexes only happen in the ears

4. Why do scientists say the brain is the most important part of using our senses?

- A) It moves bones directly
- B) It interprets signals from sense organs into useful information
- C) It pumps blood to the eyes
- D) It produces saliva

## Part B: Fill in the Blank

Write the correct answer on each line.

1. A signal from the eye travels along the optic \_\_\_\_\_ to reach the brain.

2. Your heart beats faster during exercise because the \_\_\_\_\_ system needs more oxygen.

3. When you hear a loud noise, your \_\_\_\_\_ detect sound waves and send signals to the brain.

4. The \_\_\_\_\_ system carries oxygen-rich blood from the lungs to all body cells.

5. Working together, sense organs, nerves, the brain, and muscles let the body sense, decide, and \_\_\_\_\_ to the world.

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**Part B: Fill in the Blank**

Write the correct answer on each line.

1. A signal from the eye travels along the optic nerve to reach the brain.
2. Your heart beats faster during exercise because the muscular system needs more oxygen.
3. When you hear a loud noise, your ears detect sound waves and send signals to the brain.
4. The circulatory system carries oxygen-rich blood from the lungs to all body cells.
5. Working together, sense organs, nerves, the brain, and muscles let the body sense, decide, and respond to the world.