

# Body Systems Working Together: Homeostasis

BibleMouse.com

## Understanding the Interaction of Body Systems

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

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

Answer the following questions based on what you learned about body systems and their interactions.

1. Which body systems work together during exercise to help you move and breathe?

- A. Nervous and Digestive
- B. Muscular and Respiratory
- C. Skeletal and Reproductive

2. Homeostasis helps maintain \_\_\_\_\_ within the body.

3. Describe how the heart and lungs work together during exercise. Why is this important?

---

---

---

4. Body systems work in isolation and do not communicate with each other.

- True       False

5. What does Psalm 139:14 say about how we are made?

- A. We are made to be perfect
- B. We are fearfully and wonderfully made
- C. We are made from dust

6. What surprised you the most about how body systems interact? Give an example.

---

---

---

---

7. When we eat, the \_\_\_\_\_ system helps to break down food into nutrients.

8. Homeostasis is only important during exercise and not at rest.

- True       False

9. Which body system helps to protect the body in case of a minor injury?

- A. Immune System
- B. Nervous System
- C. Integumentary System

10. How does understanding body systems show God's amazing design?

---

---

---

---

Answer Key

1. Muscular and Respiratory 2. internal balance 3. The heart pumps blood to the lungs to get oxygen. The lungs take in oxygen and remove carbon dioxide. This is important because our muscles need oxygen to work properly during exercise. 4. False 5. We are fearfully and wonderfully made 6. I was surprised that so many systems work together at the same time. For example, when I exercise, my heart rate increases, and my lungs work harder to supply oxygen to my muscles. 7. digestive 8. False 9. Integumentary System 10. It shows that God created a complex system where each part has a specific role, working together to keep us healthy and functioning properly. This reflects His intentional design.