

Human Body Systems Interactions – Study Guide

Levels of Organization Fill-in-the-Blank

1. Cells work together to form _____.
2. _____ work together to form organs.
3. Organs work together to form _____.
4. _____ make up organisms.
5. Word = _____
6. Sentence = _____
7. Paragraph = _____
8. Chapter = _____
9. Book = _____

Word Bank for Questions 1-9

cell organ tissue organism organ system

Human Body System Matching

1. _____ Nervous System	A. The major organs of this system are the lungs. This system allows the body to breathe.
2. _____ Integumentary System	B. The major organs of this systems are glands that produce chemicals to help control body functions such as growth and development.
3. _____ Digestive System	C. White blood cells in this system fight pathogens (germs).
4. _____ Skeletal System	D. The major organs of this system include the tonsils, the spleen, and other lymph nodes that help remove dead pathogens (germs) and other wastes from the body by contracting of skeletal muscles.
5. _____ Excretory System	E. The major organ of this system is the skin. This system covers and protects the body.
6. _____ Lymphatic System	F. The 3 types of tissue in this system include smooth, striated, and cardiac. This system provide shape, support, and movement for the body.
7. _____ Respiratory System	G. The major organs of this system include the brain and spinal cord. This system controls the body.
8. _____ Endocrine System	H. The major organs of this system include the kidneys and the bladder. The kidneys filter the blood and produce urine that is stored in the bladder until the body is ready to release the waste.
9. _____ Muscular System	I. The major organs of this system are the heart and the blood vessels. This system provides transportation for nutrients, oxygen, and other substances throughout the body.
10. _____ Cardiovascular System	J. The human body has 206 bones that help protect the internal organs and a variety of joints that allow movement. This system also produces red blood cells in the marrow of the bones.
11. _____ Urinary System	K. This system has many organs including the stomach and the intestines. This system is responsible for breaking down food for the body.
12. _____ Immune System	L. This system consists of 4 other systems that help the body removes wastes. These systems include the integumentary (sweating), respiratory (exhaling carbon dioxide), urinary (releasing urine), and digestive systems (releasing feces).

Systems Interactions

Action	Which body systems are in use during this action?	How do you know these systems are part of this action?
Brushing your teeth	Skeletal Muscular Nervous Respiration Cardiovascular	respiration and cardiovascular give you energy to move your muscles; the muscles are moving the bones to lift and maneuver the toothbrush to clean the teeth which are also bones; the nervous system is directing the action using information from the senses (eyes, touch, taste)
Scoring a touchdown	Muscular Skeletal Nervous Cardiovascular Respiratory	
Texting	Muscular Skeletal Nervous	
Eating breakfast		

How does the skeletal system interact with the...

1. ...muscular system? _____

2. ...respiratory system? _____

3. ...cardiovascular system? _____

4. ...nervous system? _____

5. ...digestive system? _____

6. ...immune system? _____
