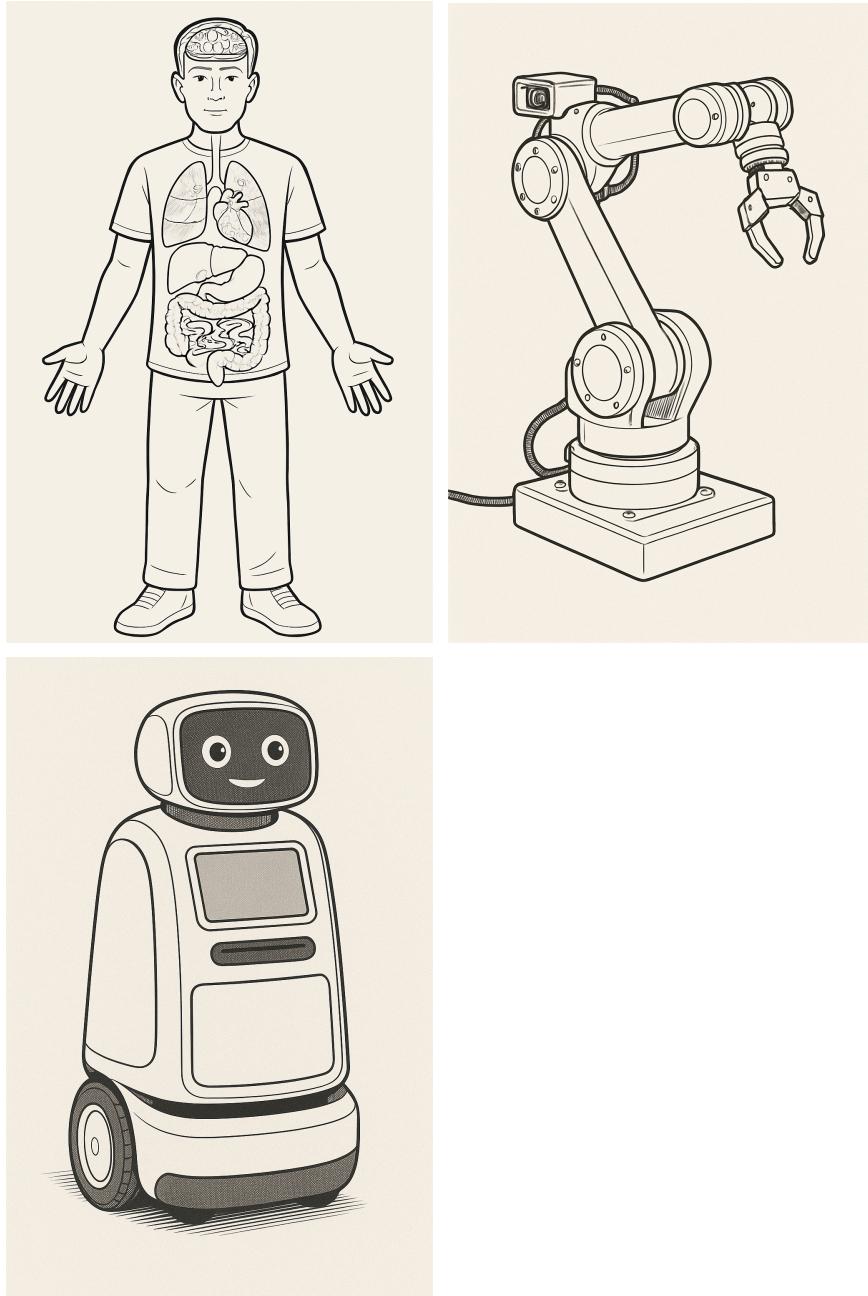


# Human vs. Robot Systems Comparison Chart



## Instructions

Complete the chart below by comparing human body systems to equivalent robot systems.  
For each human system:

1. Identify what similar functions robots need
2. List what components would handle those functions
3. Add examples of how these components work in real robots

**Comparison Chart**

<b>Human Body System</b>	<b>Function in Humans</b>	<b>Equivalent Robot Function</b>	<b>Robot Components</b>	<b>Example in Real Robots</b>
Skeletal System	Provides structure and support for the body			
Muscular System	Enables movement and manipulation of objects			
Nervous System	Processes information and controls body functions			
Sensory System	Gathers information from the environment			
Digestive System	Provides energy by processing food			
Respiratory System	Exchanges gases (oxygen and carbon dioxide)			
Circulatory System	Transports materials throughout the body			
Integumentary System (Skin)	Protects internal systems from external environment			

**Reflection Questions**

1. What are the most significant differences between human systems and robot systems?
2. Which human body system do you think is the most difficult to replicate in robots? Why?
3. How might robots develop systems that humans don't have? What advantages might these provide?
4. How could understanding human body systems help engineers design better robots?