

Study Guide for Topic 8

organ system	made up of a group of organs that do a particular job
organ	body parts that perform specific functions
tissue	groups of cells of the same kind that have a specific function
lungs	main organ in respiratory system
diaphragm	muscle that causes air to flow in and out of lungs
heart	muscular organ that pumps blood throughout the body
function	job
skeletal system	supports body, gives it shape, and protects internal organs
muscle	organ that contracts and lengthens to move bones
skin	largest organ that covers and protects your internal organs and protects the body from disease-causing germs
extend	to straighten
sensory organ	gather specific kinds of information to send to the brain
brain	control center of the body

respond	react
small intestine	most digestion occurs
large intestine	absorbs water and gets rid of waste
pancreas	produces chemical that adjusts sugar levels
liver	breaks down fats
stomach	digests only certain foods
excretory system	system that removes wastes from the body
kidneys	pair of bean-shaped organs that filter wastes from the blood
bladder	muscular sac that holds urine
connect	attach
Human cells that work together to do a particular job is a _____.	tissue
If you were running a cross-country race, the _____ and _____ systems would help you finish the race.	skeletal and muscular
The _____ system protects the internal organs.	skeletal

<p>An experiment was done to test reaction time without looking. Justin placed his thumb and index finger at the bottom of the ruler without touching it and closed his eyes. On command, the ruler dropped, and he caught the ruler between his finger and thumb. What steps would his nervous system go through to catch the ruler?</p>	<ol style="list-style-type: none"> 1. Sound waves travel to the eardrum. 2. The eardrum turns the sound into a nerve impulse. 3. The nerve impulse travels to the brain. 4. The brain communicates to the muscles to catch the ruler.
<p>Justin did a second test. A ruler was placed above his hand. This time Justin looked at the ruler and on command, caught it in his hand. What organs interacted to help Justin catch the ruler?</p>	<p>eyes, brain, and muscles</p>
<p>Justin completed his tests several times. Each time he did the tests, his reaction _____ because of repeated _____.</p>	<p>improved practice</p>
<p>The _____ system protects humans from viruses and bacteria.</p>	<p>immune</p>
<p>When you are walking up a set of stairs, the respiratory</p>	

system _____ the breathing _____ .	increases rate
The _____ system responds when lungs bring in air.	respiratory
The _____ system responds when the heart beats faster.	circulatory
The _____ system responds when blood is pumped through the body.	circulatory
The _____ system responds when gases leave the body.	respiratory
The respiratory and circulatory systems support the body during _____ because both heart rate and breathing rate _____.	exercise increase
When waste gas exits the body, it will go through the _____, _____, and then _____.	lungs, trachea, and mouth
The skin acts like a _____ to stop germs, and it covers and _____ the body's organs.	wall protects
When a runner needs more energy, the _____ will communicate with the other organs.	brain

_____ is the first stage of development in which the human body can reproduce.	Adolescence
The _____ and the _____ help store food and urine for a short time before moving to the next process.	stomach bladder