

Chapter Five

Science Study Guide

Vocabulary:

Voluntary muscles: Muscles you can control. Smiling, running, and chewing are actions controlled by voluntary muscles.

Involuntary muscles: Muscles you cannot control. You use involuntary muscles to breathe or digest food.

Neuron: Cells that carry information through the nervous system

Pathogens: Organisms that cause some diseases

Infectious disease: Disease that can pass from one organism to another by direct contact

Immune system: The organs in your body that protect you from many pathogens

Vaccine: Medicine that protects you from a disease by signaling your immune system to make antibodies

Key Points:

- ◆ The skeletal and muscular systems work together to support and move your body.
- ◆ The skeleton protects your organs.
- ◆ The spinal cord passes signals between the brain and the rest of the body.
- ◆ Calcium builds strong bone tissue.
- ◆ Cardiac muscle is involuntary and found only in the heart.
- ◆ The respiratory system provides oxygen for the body. The lungs are the main organs in the respiratory system. The diaphragm is the main muscle involved in breathing.
- ◆ The digestive system breaks food into forms the body can use to get energy. Most digestion takes place in the small intestine where the food is broken down into nutrients.
- ◆ The body uses special cells, tissues, organs, and chemicals to keep disease-causing microorganisms from causing harm.
- ◆ Mucus and saliva in your mouth traps and removes microorganisms from your body.
- ◆ Coughing removes mucus that traps the microorganisms you breathe in.
- ◆ Similar cells work together to form tissues. Tissues work together to form organs. Organs that work together make up an organ system.
- ◆ Viruses are about 100 times smaller than most bacteria.