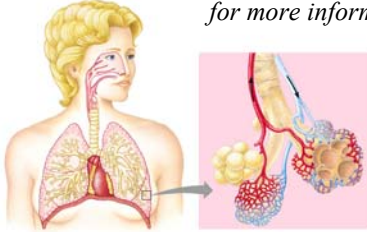


Human Organ Systems

Flash card data

View anatomy page on mrskingsbioweb.com for more information



AP Biology
Mrs. King

Integumentary System

- Body's first line of defense
- Forms the external body covering
- Protects deeper tissues from injury
- Synthesizes vitamin D
- Site of cutaneous receptors
 - Pain, pressure, etc.
 - sweat and oil glands



Skeletal System



- Protects and supports body organs
- Provides a framework muscles use to cause movement
- Blood cells are formed within bones
- Stores minerals

Muscular System

- Allows manipulation of the environment
 - Locomotion
 - Facial expression
- Maintains posture
- Produces heat



Nervous System



- Fast acting control system of the body
- Responds to internal and external changes
 - Activates appropriate muscles and glands

Endocrine System



- Glands secrete hormones that regulate processes
 - Growth
 - Reproduction
 - Nutrient use (metabolism) by body cells

Cardiovascular System

- Blood vessels transport blood which carries
 - Oxygen
 - Carbon dioxide
 - Nutrients
 - Wastes, etc.
- Heart pumps blood



Lymphatic System

- Picks up fluid leaked from blood vessels and returns it to blood
- Disposes of debris in the lymphatic stream
- Houses white blood cells (lymphocytes) involved in immunity
 - Immune response mounts the attack against foreign substances within the body



Respiratory System

- Keeps blood constantly supplied with oxygen and removes carbon dioxide
- Gas exchange occurs through the walls of the air sacs of the lungs



Digestive System

- Breaks down food into absorbable units that enter the blood for distribution to body cells
- Intestines absorb water
- Indigestible foodstuffs are eliminated as feces



Urinary System

- Eliminates nitrogenous wastes from the body
- Regulates water, electrolyte and acid-base balance of the blood



Reproductive System

- Overall function: production of offspring
- **Testes** produce sperm and male sex hormones
- **Ovaries** produce eggs and female sex hormones
- **Mammary glands** produce milk for newborn nourishment

