

MUSCULAR SYSTEM

helps you to move

The muscular system works with the skeletal system to help you move. All movement that we do is controlled by the muscular system. You control some of your muscles (voluntary). Some, like your heart, are involuntary.

Fun Facts!

- There are over 600 muscles in the human body.
- It takes 17 years for a muscle to fully develop.



Digestive System

breaks down food

The human digestive system breaks food down to provide your body with energy, vitamins, and minerals, giving the body what it needs. The digestive system consists of the mouth, pharynx, esophagus, stomach, small intestine, and large intestine. Accessory organs include the salivary glands, liver, and pancreas.

Fun Facts!

The tongue is the only muscle in the body that can move itself.

Nervous System

helps parts of the body communicate

The nervous system is a collection of nerve cells and fibers that send electrical messages throughout your body. The nervous system is made up of the brain, spinal cord, and nerves. The brain and the spinal cord make up the central nervous system, and the rest of the nerves together are called the peripheral nervous system. The nervous system controls everything we do, including breathing! Nerves are like wires that carry messages.

Fun Facts!

- The brain is made up of the cerebrum, cerebellum, and the brain stem.
- There are two main sets of nerves: the somatic and the autonomic.



REPRODUCTIVE SYSTEM

produces offspring

The organs in the human reproductive system allow humans to produce offspring.

Fun Facts!

- Sperm and egg cells are the only cells that can reproduce.



IMMUNE SYSTEM

body's defense

The immune system is the body's defense against foreign invaders.

Fun Facts!

White blood cells are also known as leukocytes. They are the body's defense against infection.



RESPIRATORY SYSTEM

absorb oxygen, release carbon dioxide

The respiratory system is a group of organs that absorb oxygen and get rid of carbon dioxide. The primary organ of the respiratory system is the lungs. Other parts, such as the trachea, bronchi, and diaphragm, also play a role in the process. You breathe in through your nose or mouth, and the air makes its way down to the lungs, where the lungs work together with the cardiovascular system in order to transfer the oxygen to the rest of your body.

Fun Facts!

- The lungs are the only organs in the body that can float in water.
- The right lung is a little larger than the left.
- Water is also released with carbon dioxide when we breathe.



Integumentary System

protects the body

The integumentary system protects the body from damage, and consists of skin, hair, nails, and exocrine glands. Your skin provides a protective barrier that guards the body from infection, extreme temperatures, and dehydration. It also serves as a reservoir for fluids and electrolytes.

The cardiovascular system circulates blood throughout the body and is made up of the heart and blood vessels. The heart pumps and pushes blood out through the arteries, carrying oxygen and nutrients to the cells in the body. Tiny blood vessels branch off the arteries to deliver oxygen and nutrients to the cells. Blood then returns to the heart through the veins.

Fun Facts!

- The human heart is about the size of your fist.
- Your heart is located in the middle of the chest, tucked in between the two lungs.
- Valves are in your heart that prevent blood from going backwards.



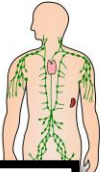
LYMPHATIC SYSTEM

fluid and fights infections

The lymphatic system is a network of vessels that carry lymph, a clear fluid that contains white blood cells. It helps to fight infections and remove waste from the body. Lymph nodes are small, bean-shaped structures that are part of the lymphatic system.

Fun Facts!

- Lymph fluid starts out as plasma picked up by lymph capillaries.
- Lymph nodes remove wastes and fight infections.



ENDOCRINE SYSTEM

secretes hormones

The endocrine system consists of glands that secrete hormones, which serve as the body's chemical messengers. Glands in the endocrine system include the hypothalamus, pineal body, pituitary gland, thyroid and parathyroid, thymus, adrenal gland, pancreas, ovaries, and testes. These glands aid in growth and development, metabolism, reproduction, sleep, mood, and tissue function. The endocrine system and the nervous system work together to help the body function the way it is supposed to.

Fun Facts!

- The body makes nearly 30 different hormones.
- The pineal gland in the brain is shaped like a pinecone.
- The pancreas also serves in the digestive system.



EXCRETORY SYSTEM

excretes waste

The excretory system excretes (gets rid of) wastes that are not helpful to the body through a process called homeostasis. This system consists of organs such as the skin, lungs, liver, kidneys, and large intestines. All excreted wastes travel at some time in the blood, but are removed. Some of these wastes include carbon dioxide, water, salt, urea and uric acid. Many people use the name urinary system and excretory system synonymously; however, although the urinary system is a major part of the excretory system, there are other systems involved with releasing wastes as well.

Fun Facts!

- The largest vein in the body goes through the kidney.
- The average person's lung measures around 12 inches.
- The average human pees about 3,000 times a year!



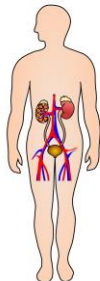
URINARY SYSTEM

produces, stores, and eliminates fluid wastes

The urinary system produces, stores, and eliminates fluid wastes. Your body cells release toxic waste products. The urinary system helps remove those wastes from your blood. The waste fluid is called urine, and the kidneys produce this urine. The primary organ of the urinary system is the kidneys, which have special filters called nephrons that filter the blood. The urinary system also consists of the ureters, bladder, and the urethra.

Fun Facts!

- The urinary system is also known as the urinary tract.
- You need at least one working kidney.
- Urine contains water, urea, uric acid, salts, creatinine, byproducts of bile, and ammonia.



HUMAN BODY SYSTEMS Gallery Walk

Name

Date

body system	function	consist of?	fun facts

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