\*\*Remember: ALL CELLS NEED \_\_\_\_NUTRIENTS\_\_\_\_\_\_\_\_ AND \_\_\_\_OXYGEN\_\_\_\_\_\_\_\_ TO DO THEIR JOBS

The Skeletal System

\_\_\_\_\_\_\_Bone marrow\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a connective tissue that produces \_\_\_\_\_\_\_\_\_red blood\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells and white blood cells. \_\_\_\_\_Joints\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are where bones meet. Hinge, ball and socket, and immovable are three common joints in your body. Muscles are attached to bones by \_\_\_\_tendons\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Bones are attached to each other by \_\_\_\_\_\_\_\_ligaments\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The average human skeleton has \_\_\_206\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ bones.

Muscular System

Muscles can be divided into two groups: \_\_\_\_\_voluntary\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_involuntary\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles. \_\_\_\_\_\_Voluntary\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles are muscles that you can make move and control. \_\_\_\_\_\_Involutary\_\_\_\_\_\_\_\_ are muscles that you can’t control ; they work without you even thinking about them (they work automatically). \_\_Skeletal\_\_\_\_\_\_\_\_\_\_\_\_ muscles are voluntary and move bones and hold your skeleton upright. \_\_\_\_Smooth\_\_\_\_\_\_\_\_\_\_\_\_ muscles are involuntary. Smooth muscles contract slowly to move substances through the organs they surround. Smooth muscles are located in the walls of your \_\_\_blood\_\_\_\_\_\_\_\_\_\_ vessels and \_\_\_\_\_\_digestive\_\_\_\_\_\_\_\_\_\_\_ organs. \_\_\_\_\_\_\_\_Cardiac\_\_\_\_\_\_\_\_\_\_\_ muscles are also involuntary. Cardiac muscles make up the walls of the \_\_\_\_\_\_heart\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Nervous System

The central nervous system is made up of the \_\_\_brain\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_spinal\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cord. The peripheral nervous system consists of the sensory organs, such as the \_\_\_eyes\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_ears\_\_\_\_\_\_\_\_\_\_\_\_, and the body \_\_\_\_\_nerves\_\_\_\_\_\_\_. A \_\_\_neuron\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a specialized cell that can receive signals and transmit them to other neurons. \_\_\_\_Receptors\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are nerve cells that detect conditions in the body’s environment; for example receptors to detect sound waves, heat/cold, touch, pain, light, color, tastes, smells. The receptors send \_\_\_signals\_\_\_\_\_ through the nerves to the central nervous system. The central nervous system interprets the signals it receives from nerves and determines what response is needed.

\*\*Remember: ALL CELLS NEED \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ AND \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ TO DO THEIR JOBS

The Skeletal System

\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a connective tissue that produces \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cells and white blood cells. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are where bones meet. Hinge, ball and socket, and immovable are three common joints in your body. Muscles are attached to bones by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. Bones are attached to each other by \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_. The average human skeleton has \_\_\_\_\_\_\_\_\_\_\_ bones.

Muscular System

Muscles can be divided into two groups: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles are muscles that you can make move and control. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are muscles that you can’t control ; they work without you even thinking about them (they work automatically). \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles are voluntary and move bones and hold your skeleton upright. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles are involuntary. Smooth muscles contract slowly to move substances through the organs they surround. Smooth muscles are located in the walls of your \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ vessels and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ organs. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ muscles are also involuntary. Cardiac muscles make up the walls of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

Nervous System

The central nervous system is made up of the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ cord. The peripheral nervous system consists of the sensory organs, such as the \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_, and the body’s \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_.

A \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ is a specialized cell that can receive signals and transmit them to other neurons. \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ are nerve cells that detect conditions in the body’s environment; for example receptors to detect sound waves, heat/cold, touch, pain, light, color, tastes, and smells. The receptors send \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ through the nerves to the central nervous system. The central nervous system interprets the signals it receives from nerves and determines what response is needed.