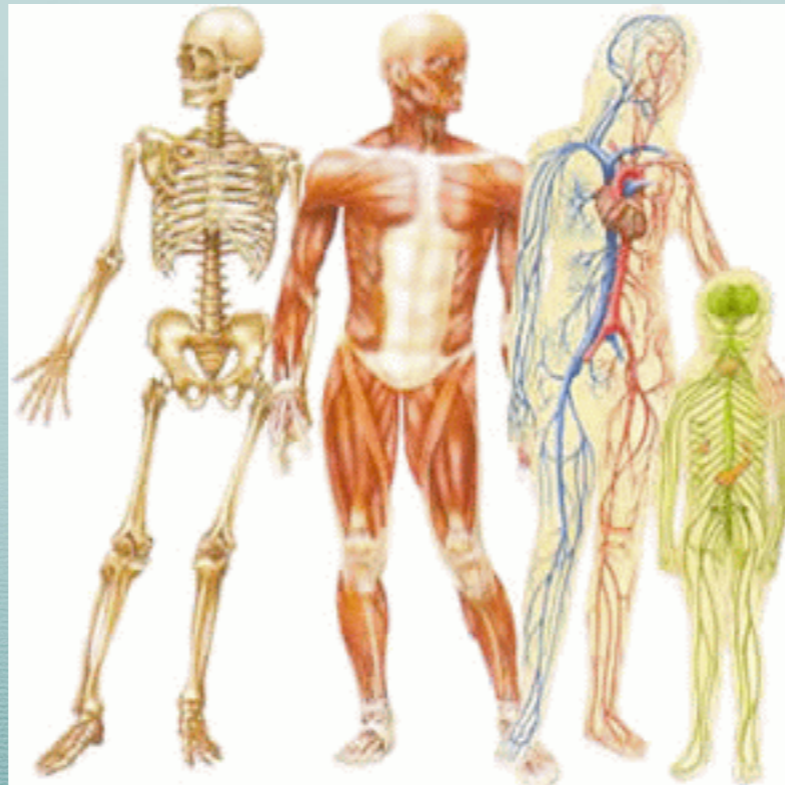


BODY SYSTEMS NOTES

2019



Directions

- * On a sheet of notebook paper you will need to write down all the **BLACK** words, you will **NOT** need to copy any of the pictures (images).
- * **REMEMBER** to copy the title of each page!



Homeostasis



Things your body does to keep itself stable, healthy, protected and balanced without you having to think about it. It's controlled by your nervous system.

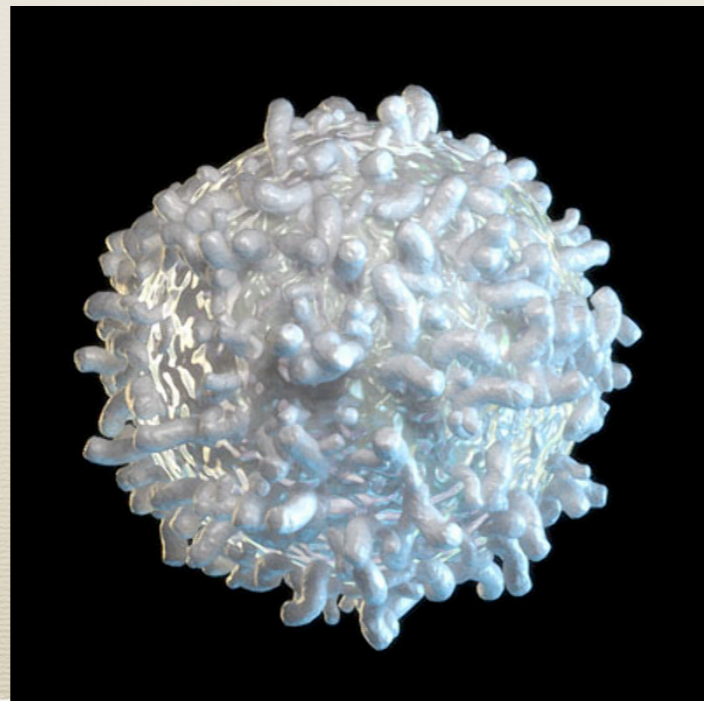
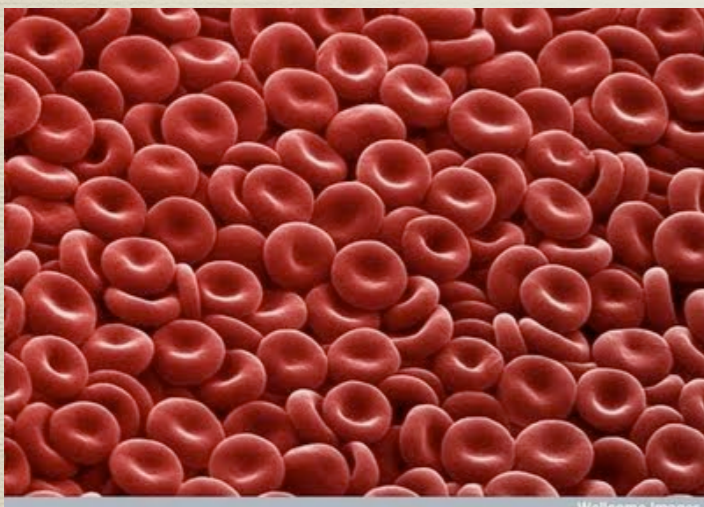
- ♦Regulates your body temperature, heart rate, and breathing rate

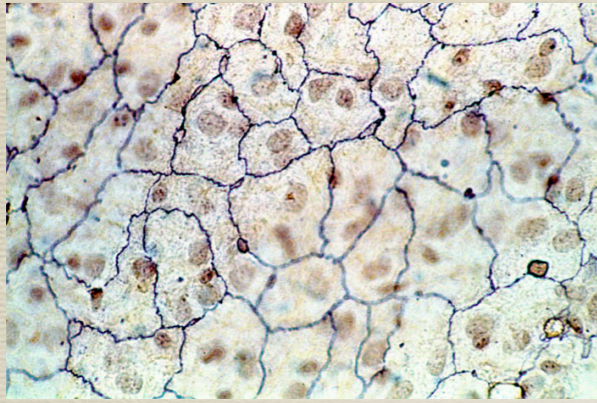


Cells

* The smallest unit of an organism that can perform life functions

Ex: Red and white blood cells, skin cells, sperm cells, egg cells,

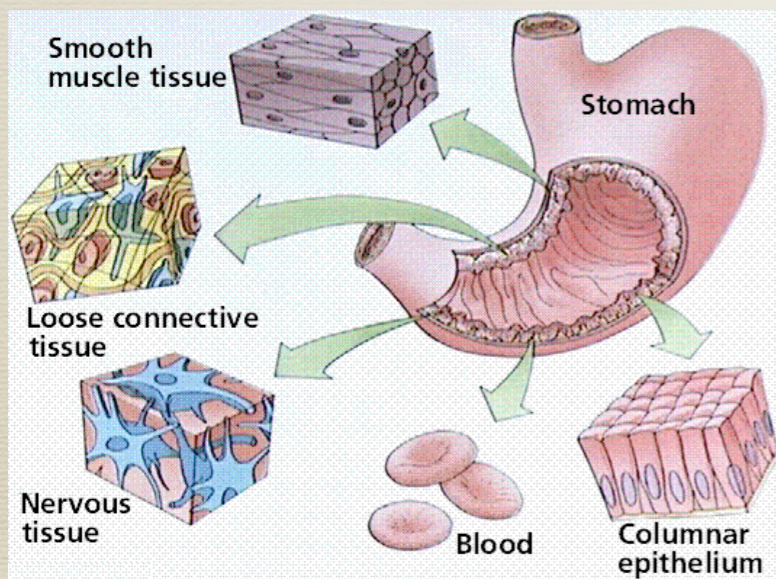


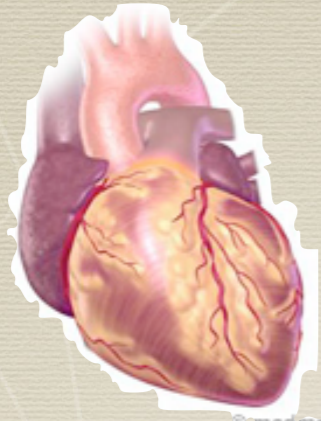


Tissues

* Groups of similar cells that perform the same function.

4 types: muscle, connective, nerve, epithelial



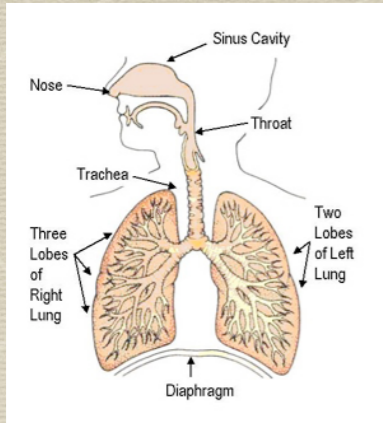


Organs

* A structure made of different kinds of tissues that perform the same function

Ex: liver, kidney, heart,
intestines, skin, lung, brain





Organ System

A group of organs that work together to perform a specific job.

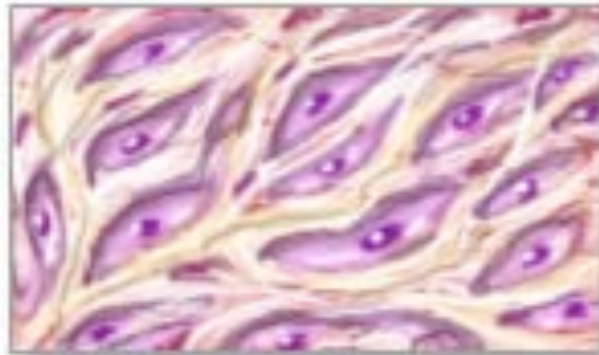
Example: The digestive System contains the esophagus, stomach, small and large intestines, liver, gall bladder

***No organ system can act alone. Each system works with and affects all the other systems in the body**

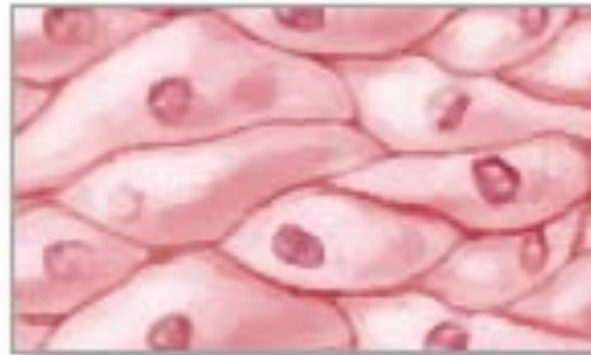


4 Kinds of Tissues in the Body

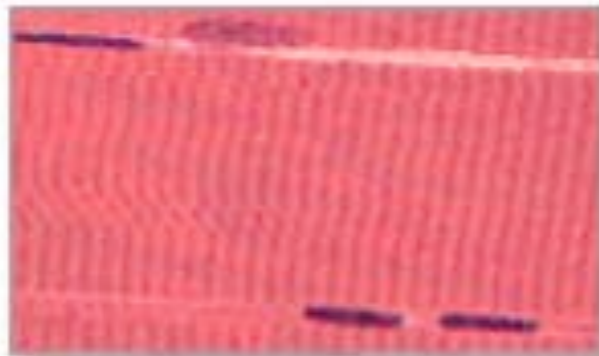
Four types of tissue



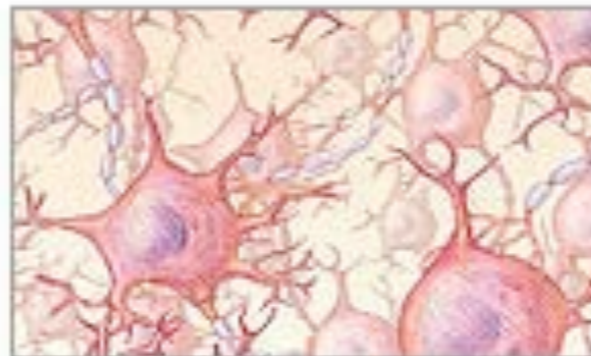
Connective tissue



Epithelial tissue



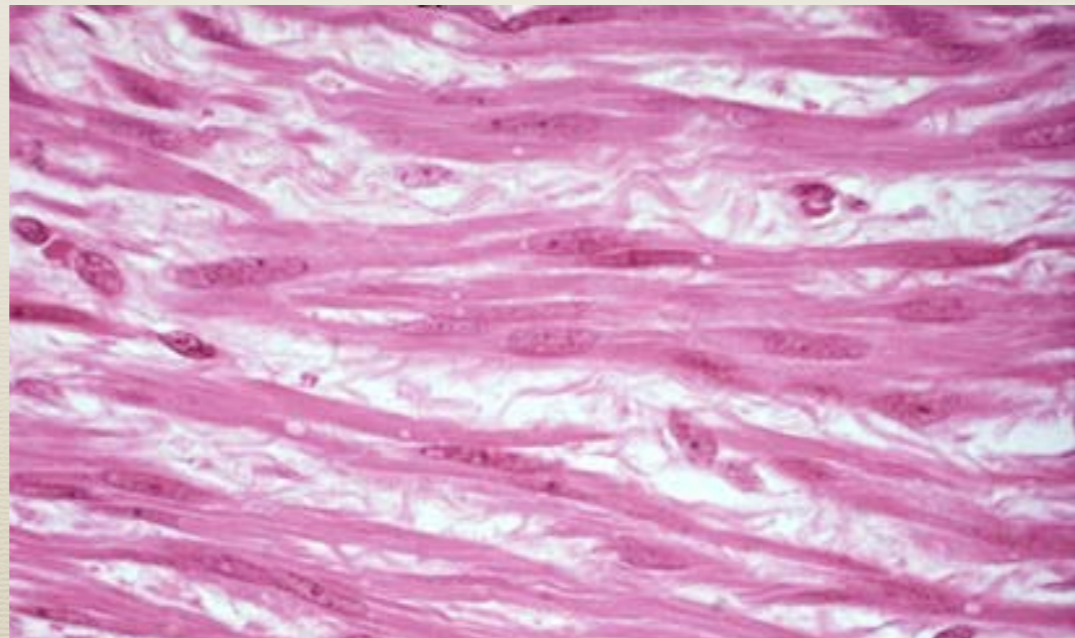
Muscle tissue



Nervous tissue

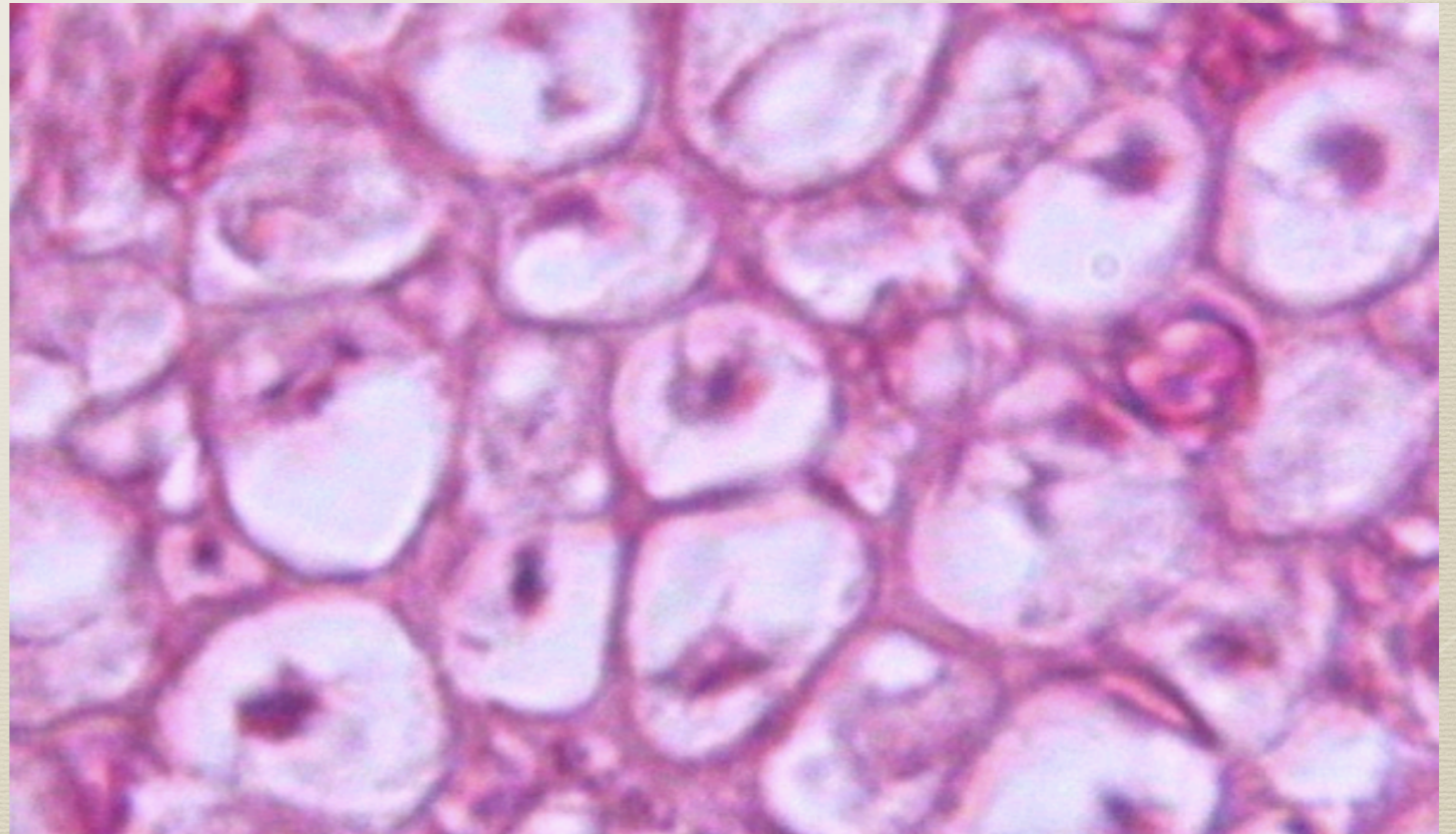
Muscle Tissue

- * The only tissue that has the ability to contract, or shorten
- * Helps to move parts of your body
- * Found in your muscles, heart, inside your intestines, tongue



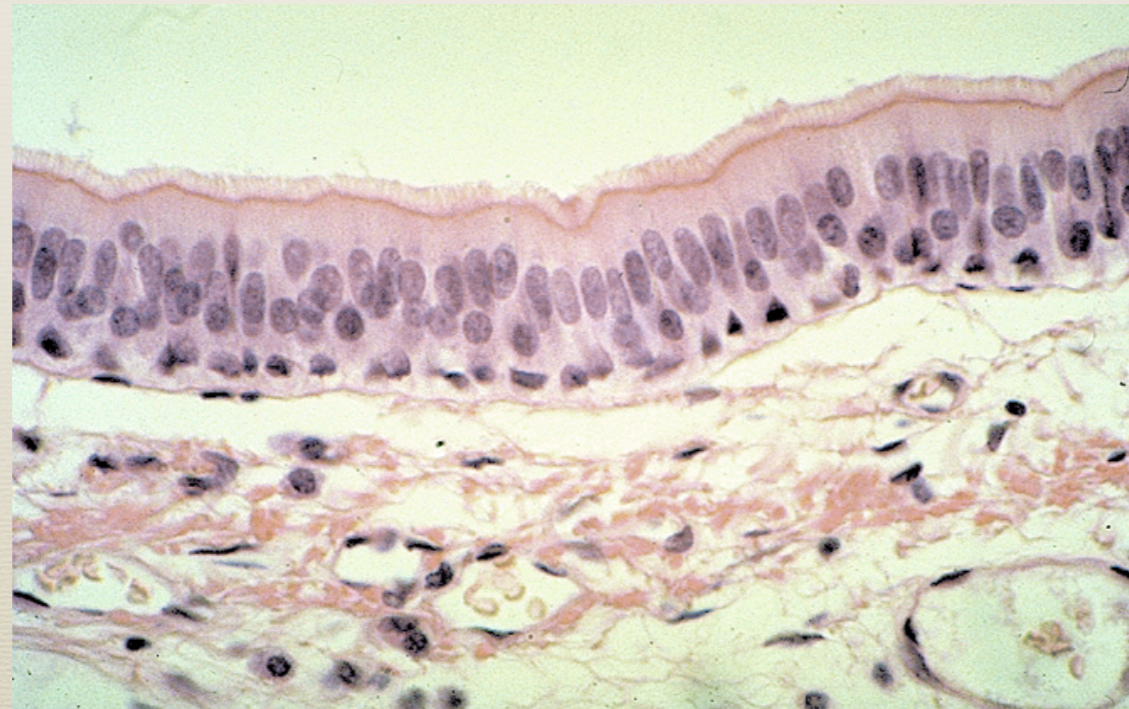
Nerve Tissue

- * Carries messages and signals back and forth between your brain, spinal cord, and in nerves throughout your body
- * Found in your brain, spinal cord, and in nerves throughout your body.



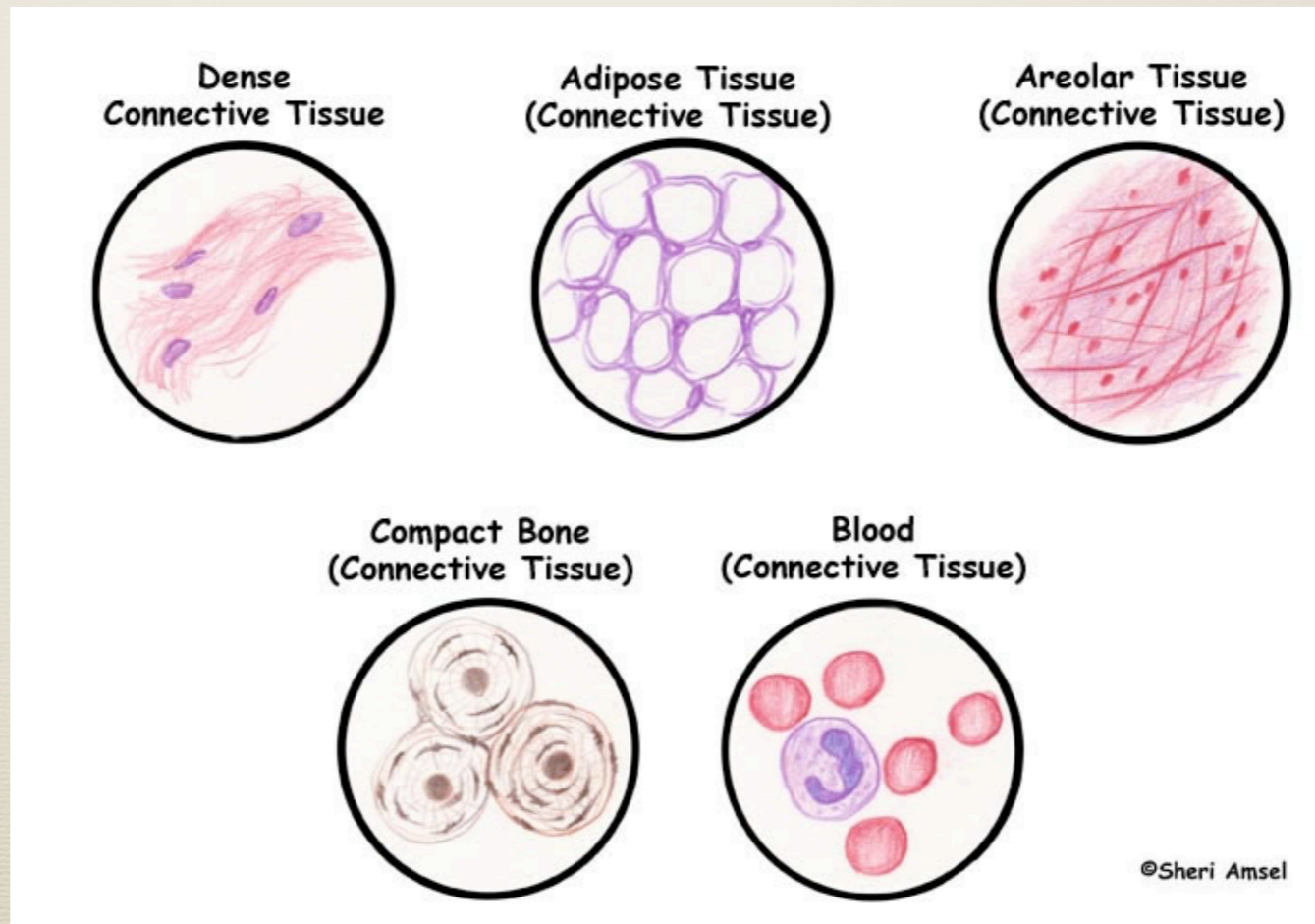
Epithelial Tissue

- * Covers the surfaces of your body inside and out
- * Found in your skin covering your body and in the skin surrounding all of your organs



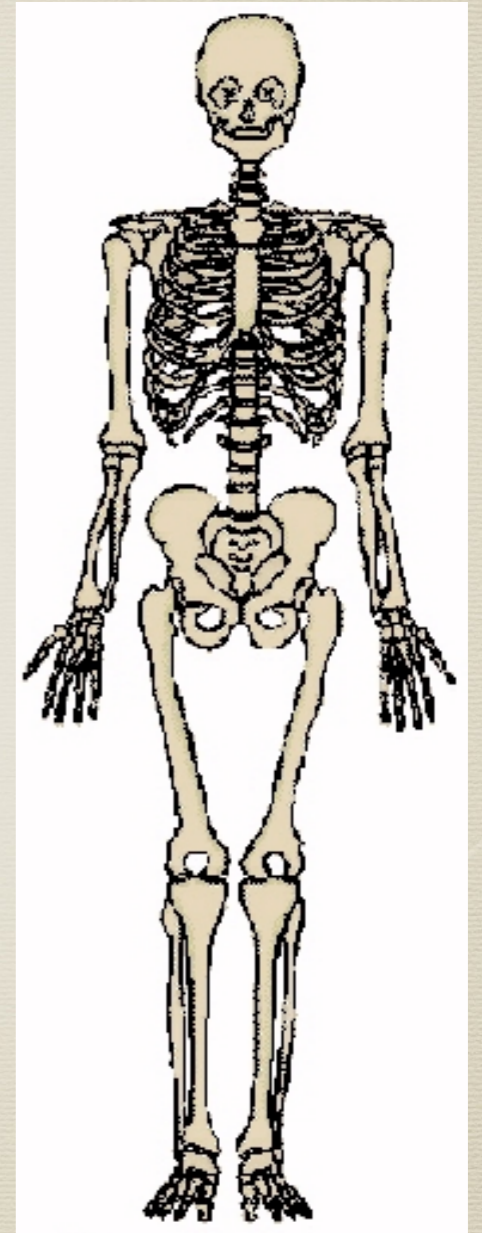
Connective Tissue

- * Tissue that supports your body and connects parts
- * Found in blood, bone, fat, cartilage, ligaments and tendons

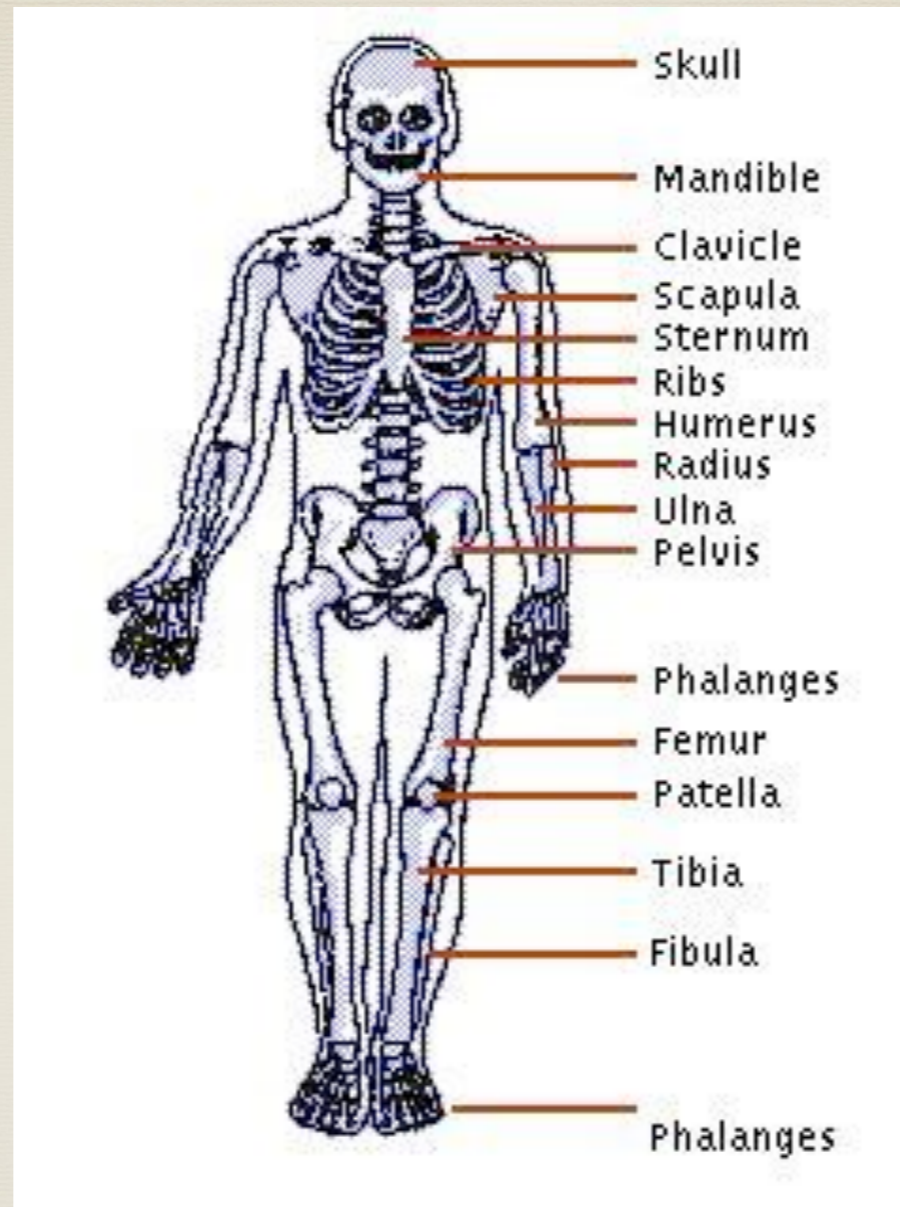


Skeletal System

- * Protects your internal organs
- * Gives your body a shape and framework
- * Works with the muscles to help your body move
- * Makes blood cells
- * Stores materials for later use (calcium and fat)



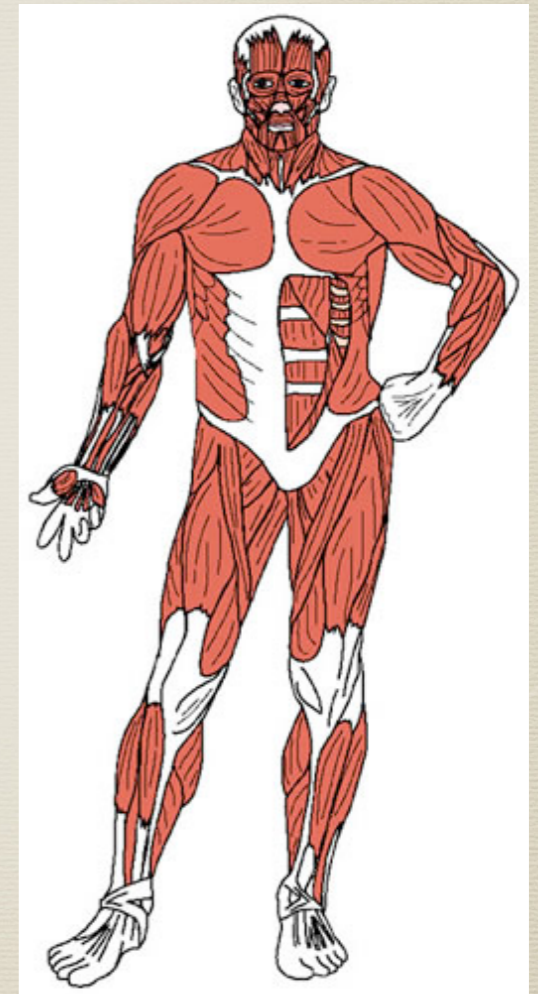
Organs of the Skeletal System



Main Parts: bones

Muscular System

- * Moves the body
- * Moves food through the digestive system
- * Heart pumps blood throughout the body
- * Muscles keep your posture by holding up your bones



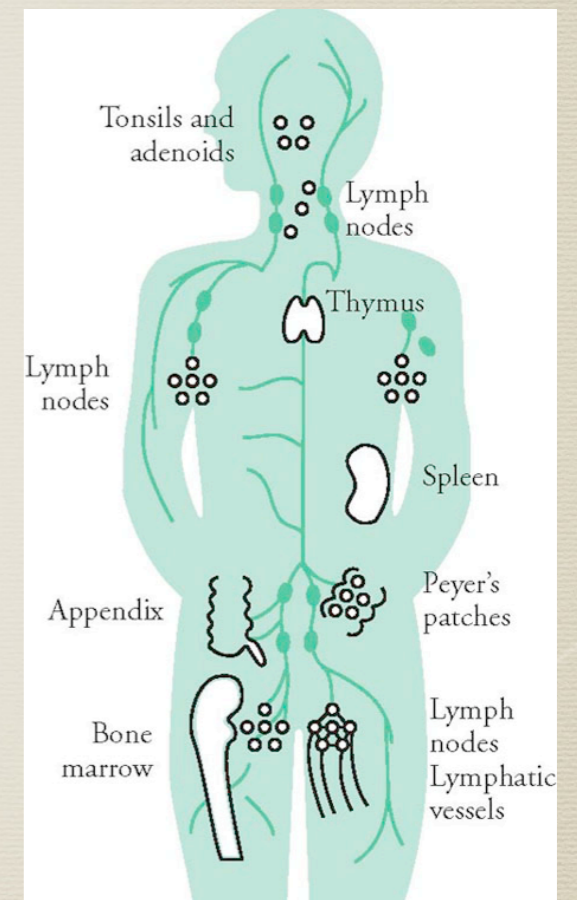
Organs of the Muscular System



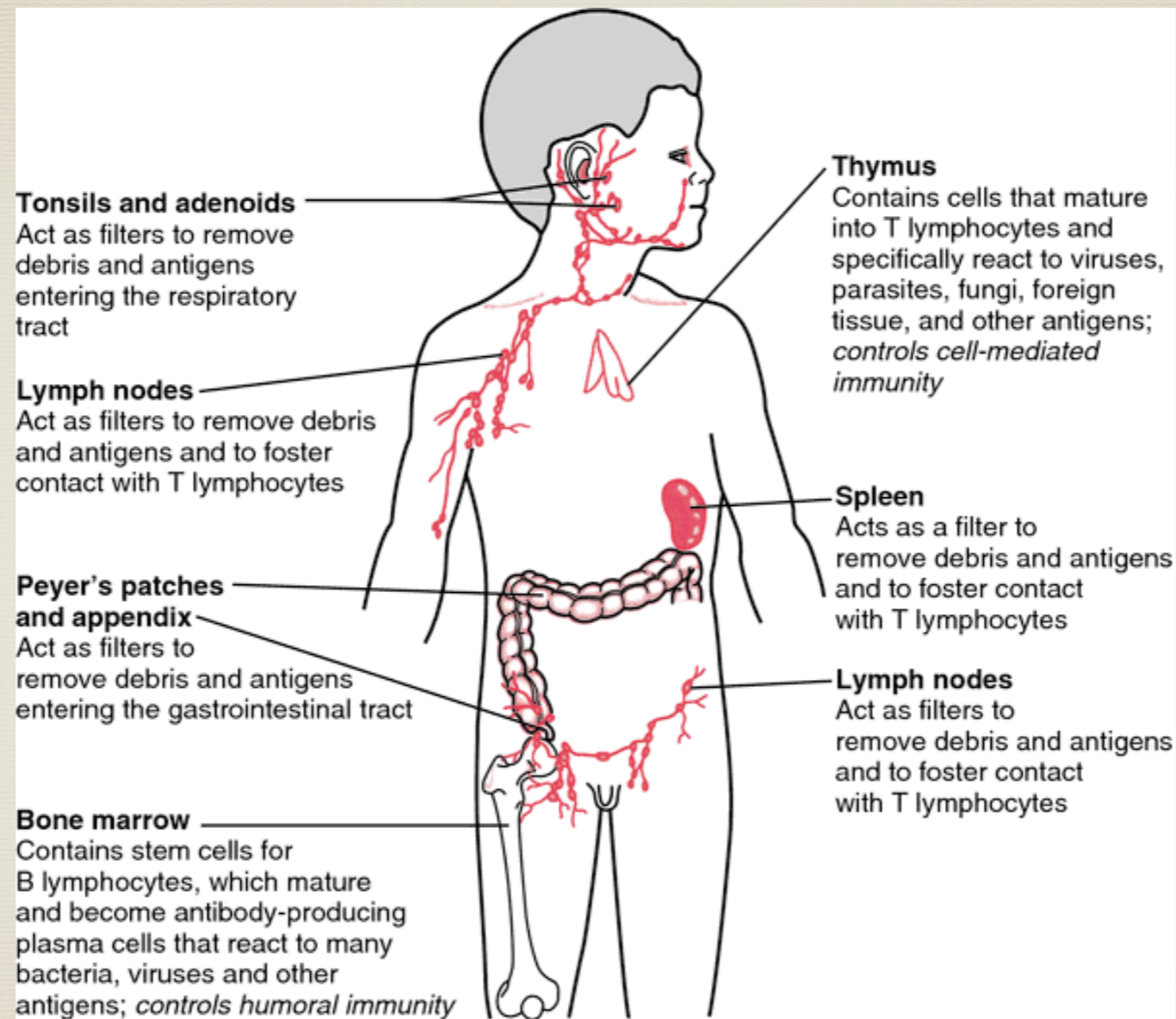
Main Parts: muscles, heart, diaphragm, tongue

Immune System

- * Helps your body fight infection, disease, and illness
- * Skin protects harmful substances from entering your body
- * White blood cells destroy harmful substances
- * Antibodies fight infection and illnesses



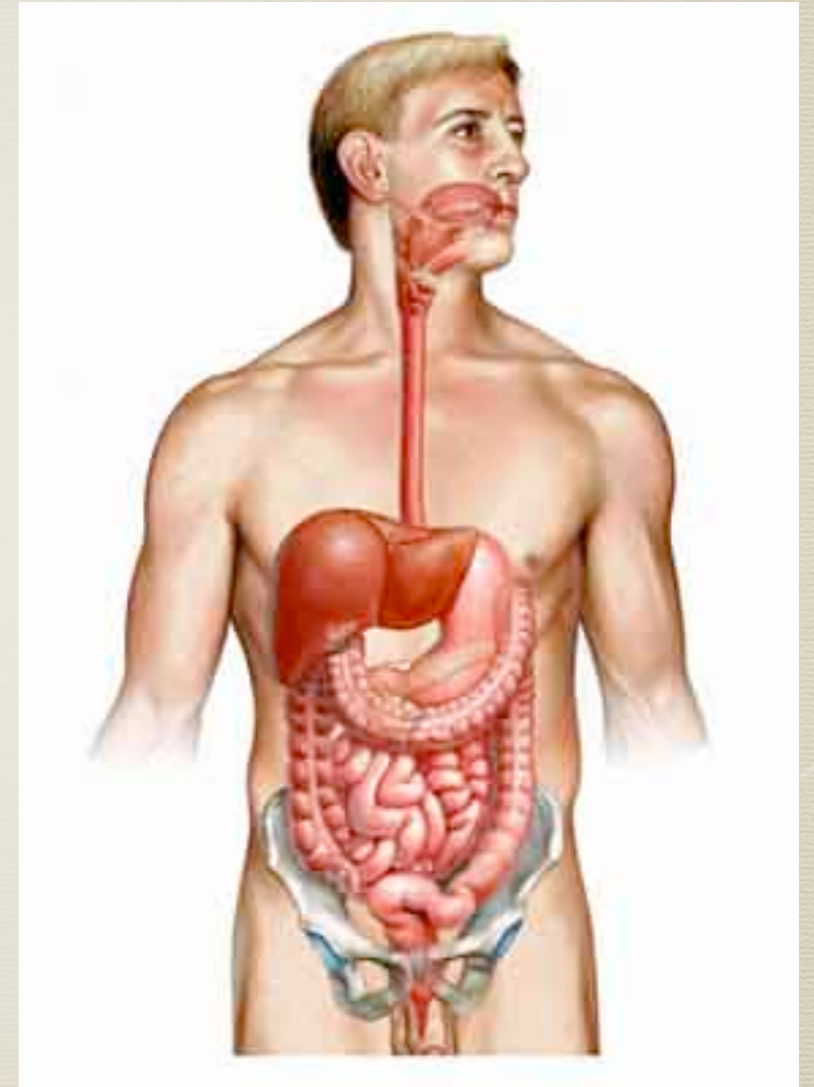
Organs of the Immune System



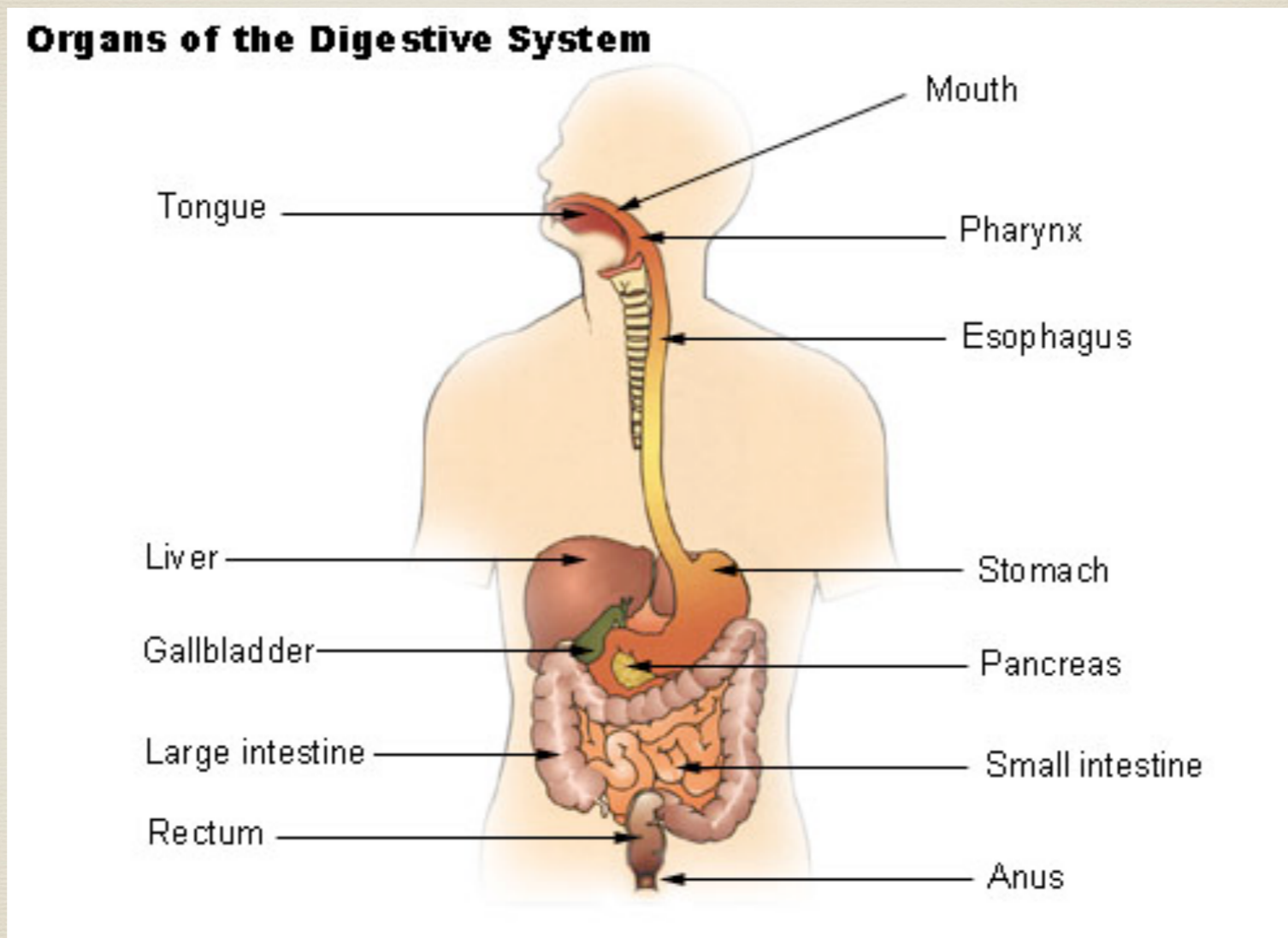
Main Parts: your skin, white blood cells, lymph nodes, antibodies, mucus

Digestive System

- * Takes food into the body and breaks it down
- * Absorbs digested material into the bloodstream



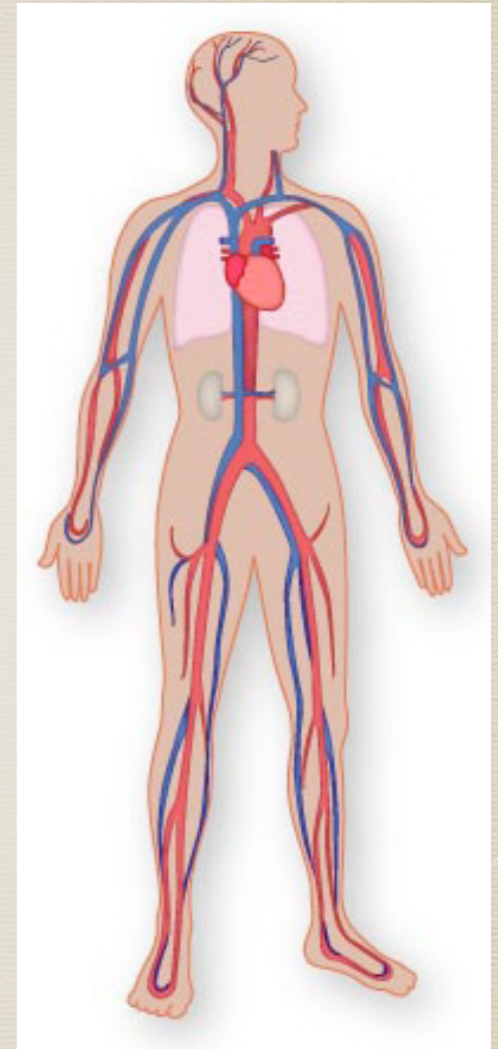
Organs of the Digestive System



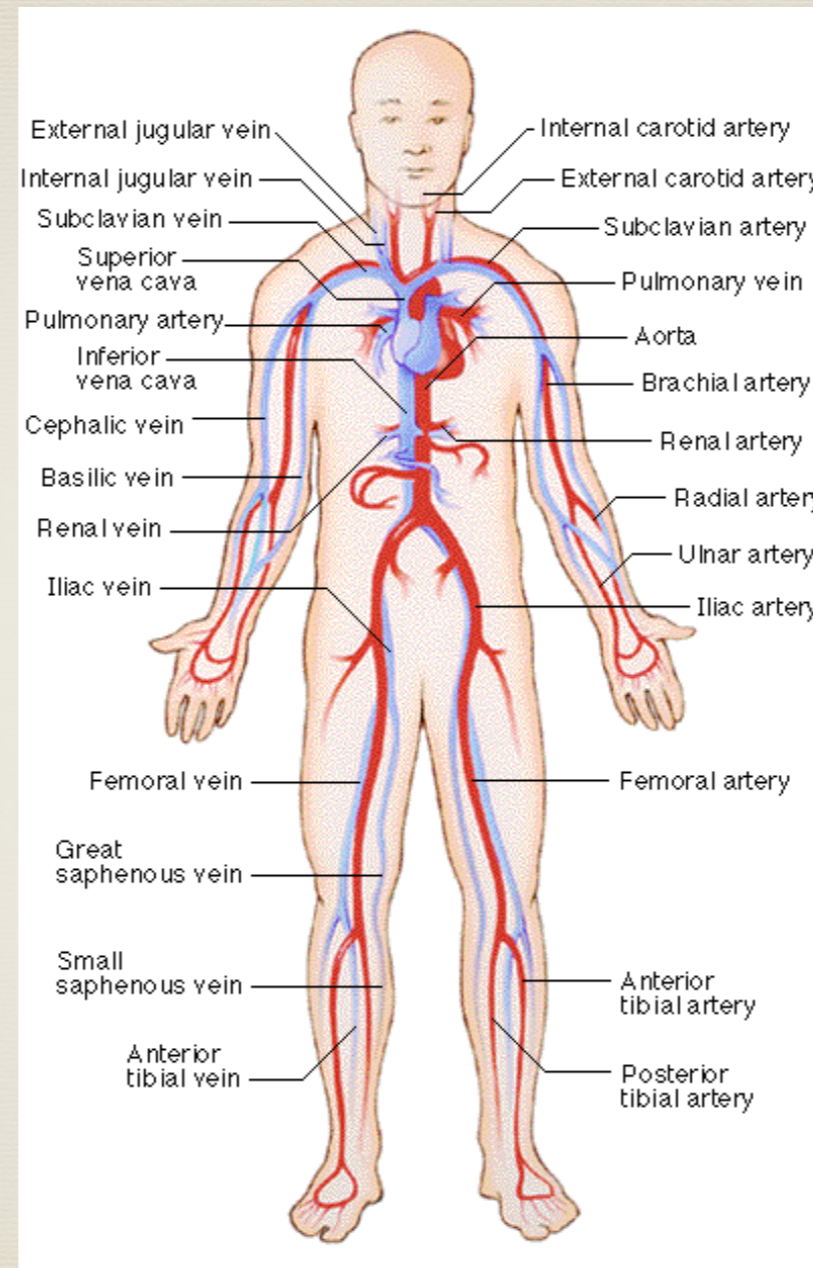
Main Parts: esophagus, stomach, liver, small and large intestine

Circulatory System

- * Blood circulates through the heart, lungs, and body
- * Blood is the delivery system that brings food and oxygen to the cells and pick up waste and carbon dioxide



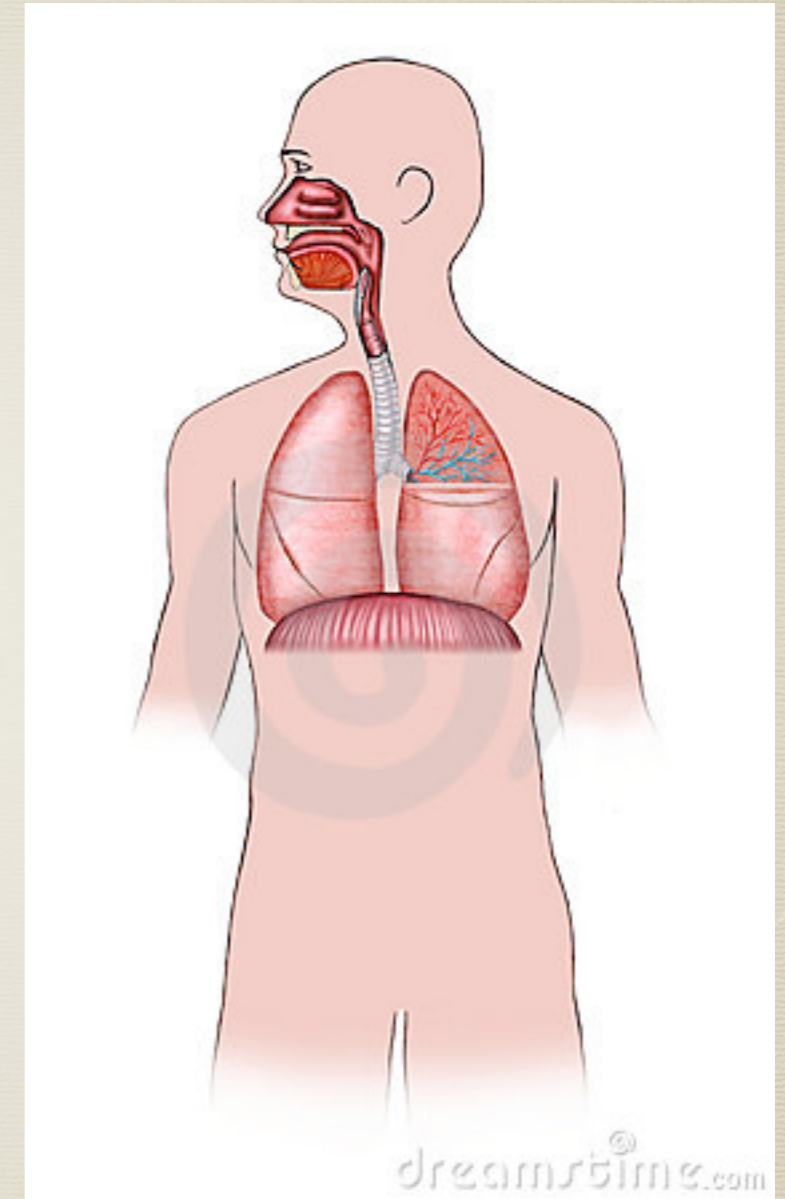
Organs of the Circulatory System



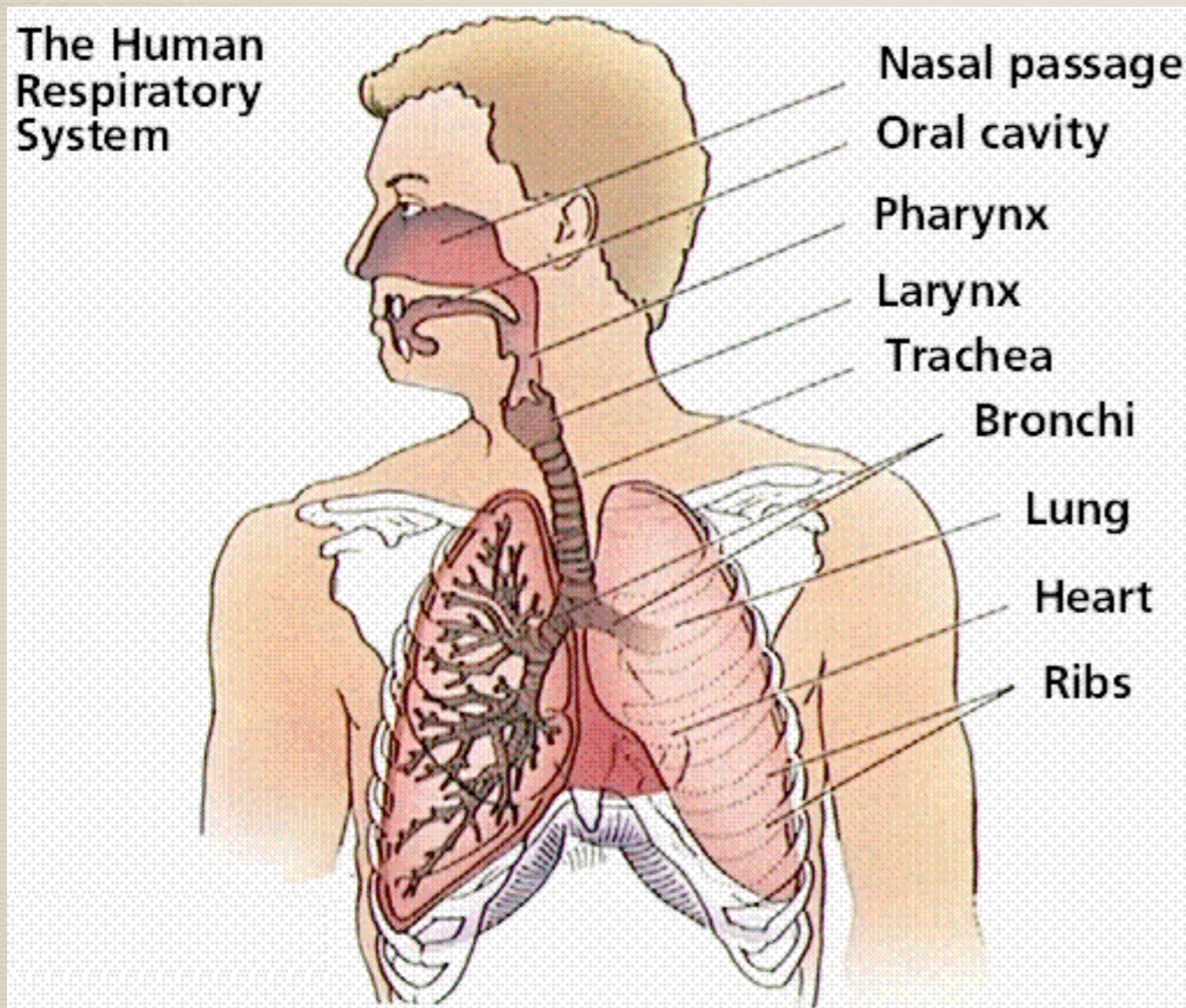
**Main Parts: heart, veins,
arteries, capillaries, blood**

Respiratory System

- * System that allows you to breathe, or respire
- * Takes needed oxygen into the body and eliminates unneeded carbon dioxide



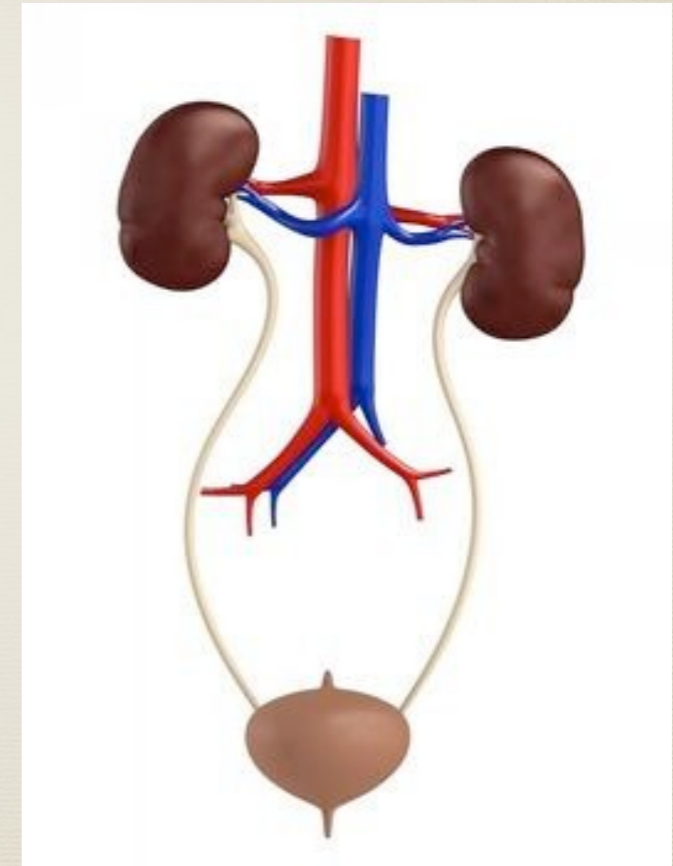
Organs of the Respiratory System



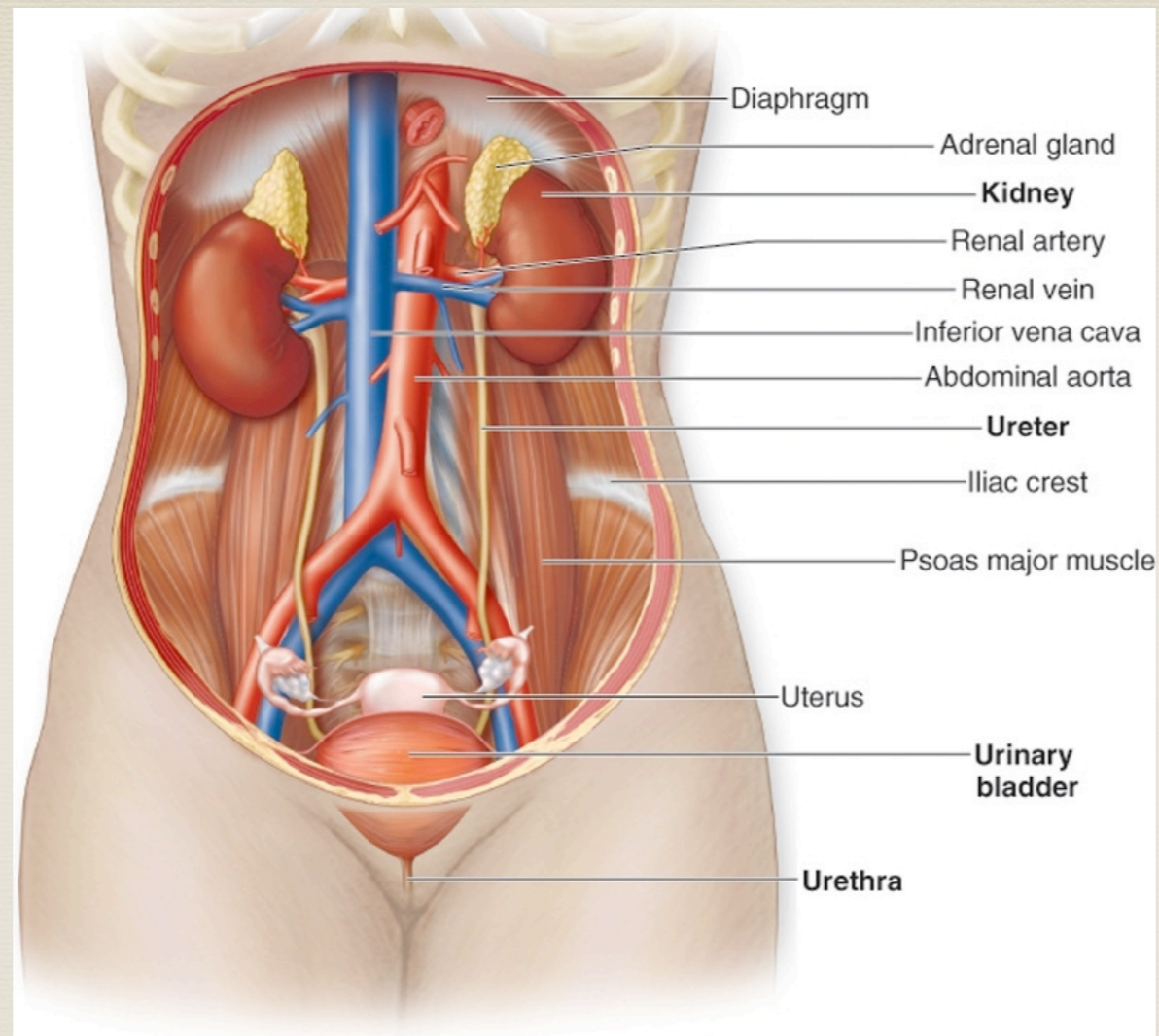
Main Parts: trachea, lungs, diaphragm

Excretory System

- * Removes solid and liquid waste from the body (waste *EX*its the body)



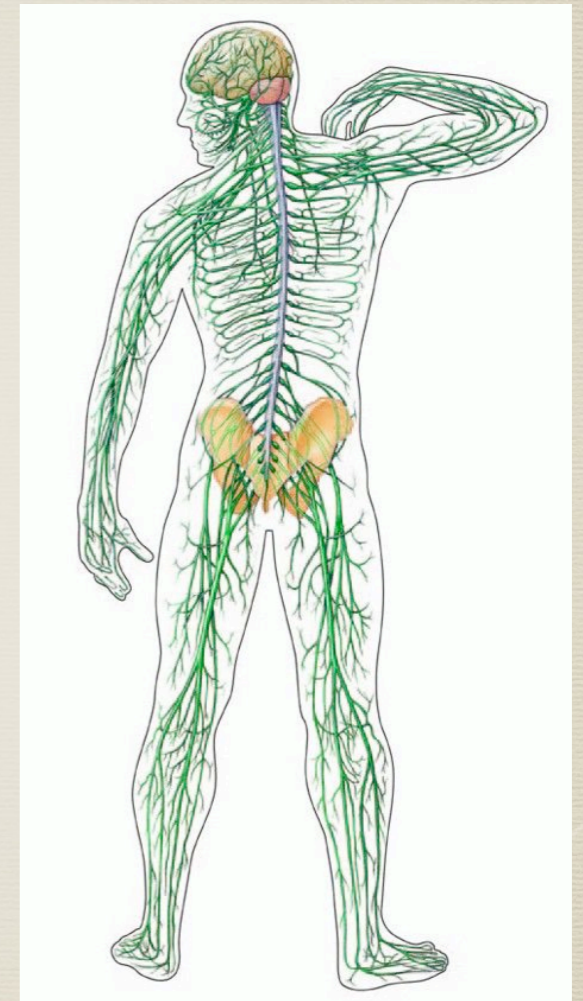
Organs of the Excretory System



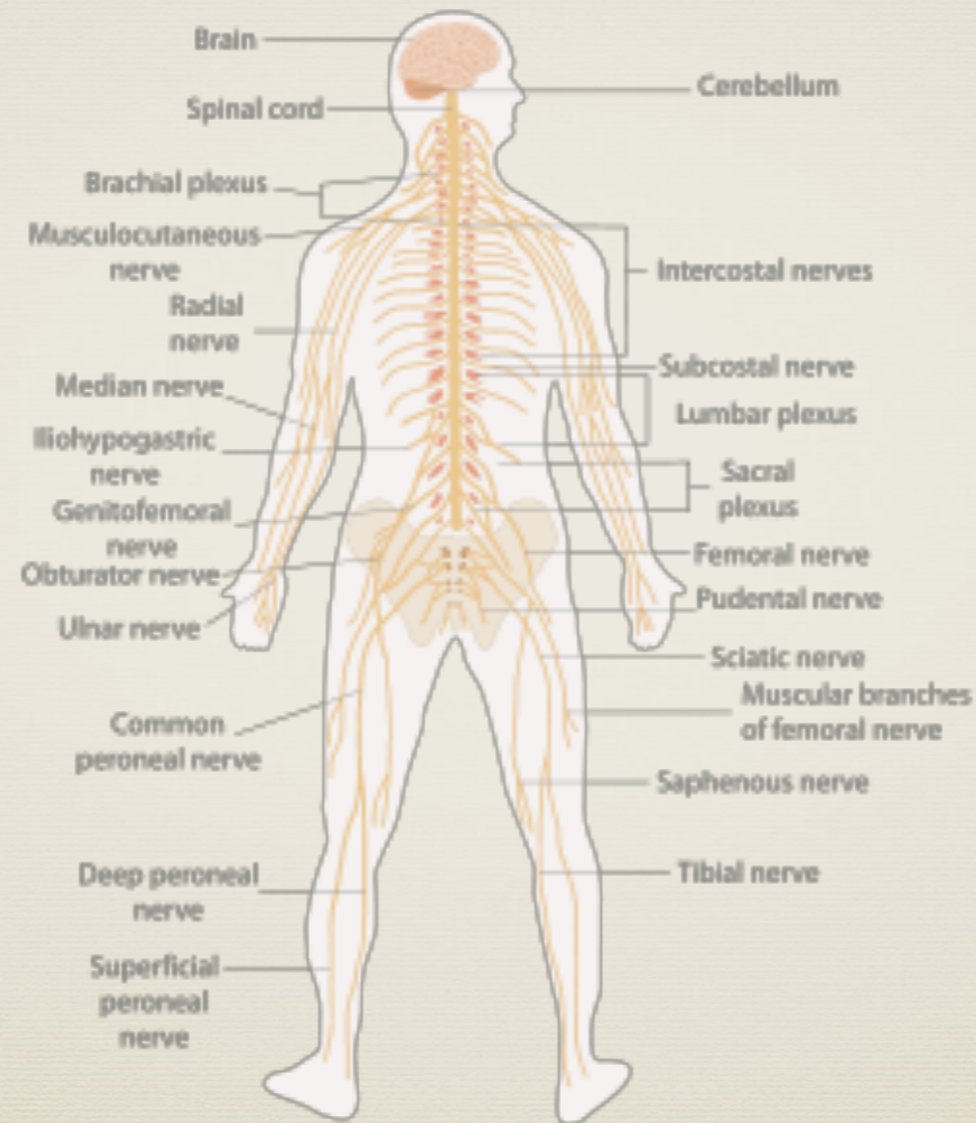
Main Parts: kidneys, large intestine, liver, bladder,
urethra

Nervous System

- * Takes in information about your surroundings through your 5 senses and directs the way your body responds or reacts.
- * Controls and regulates ALL systems in your body
- * Controls and maintains homeostasis



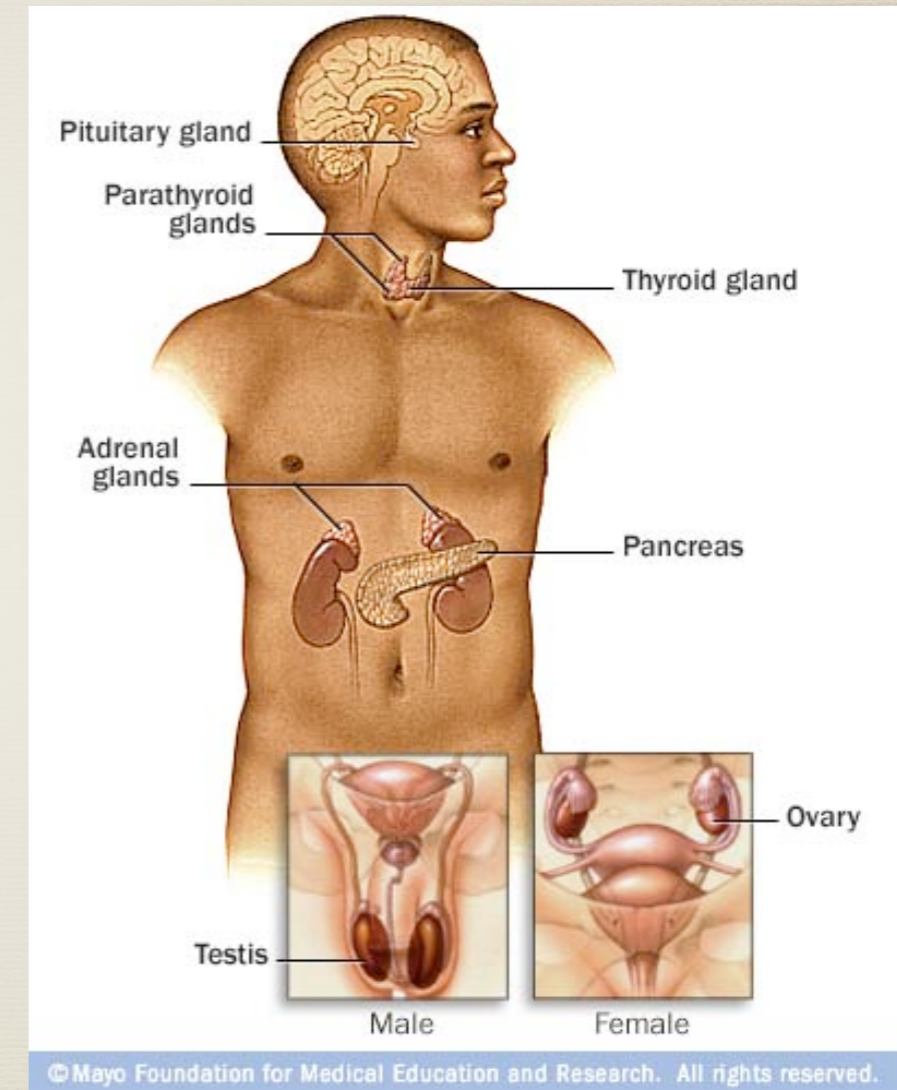
Organs of the Nervous System



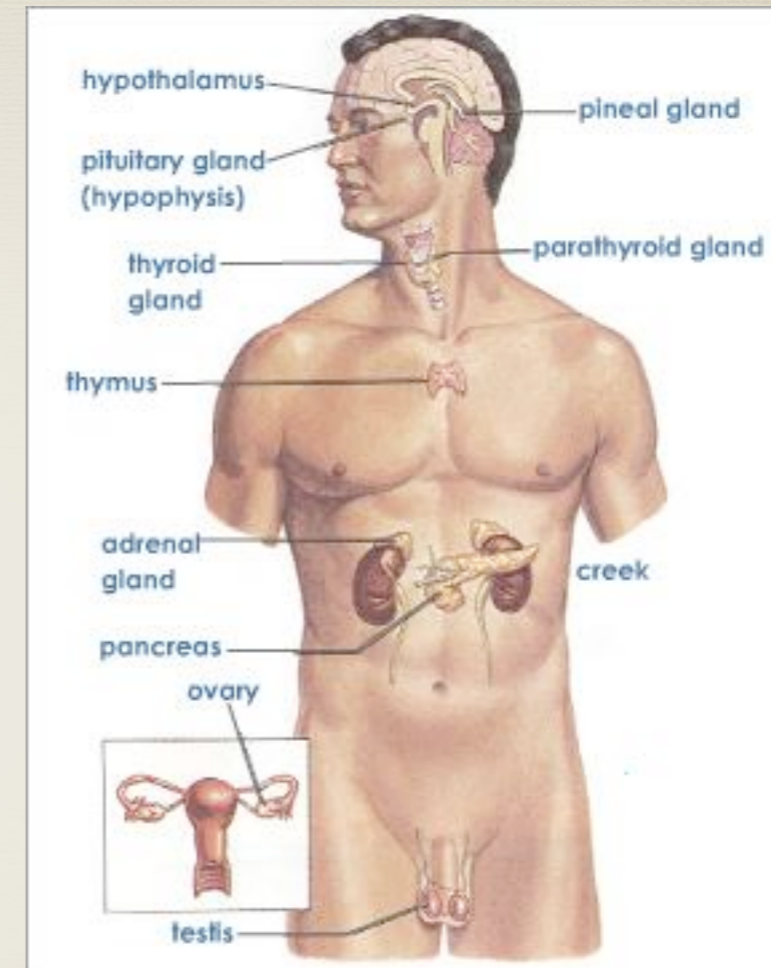
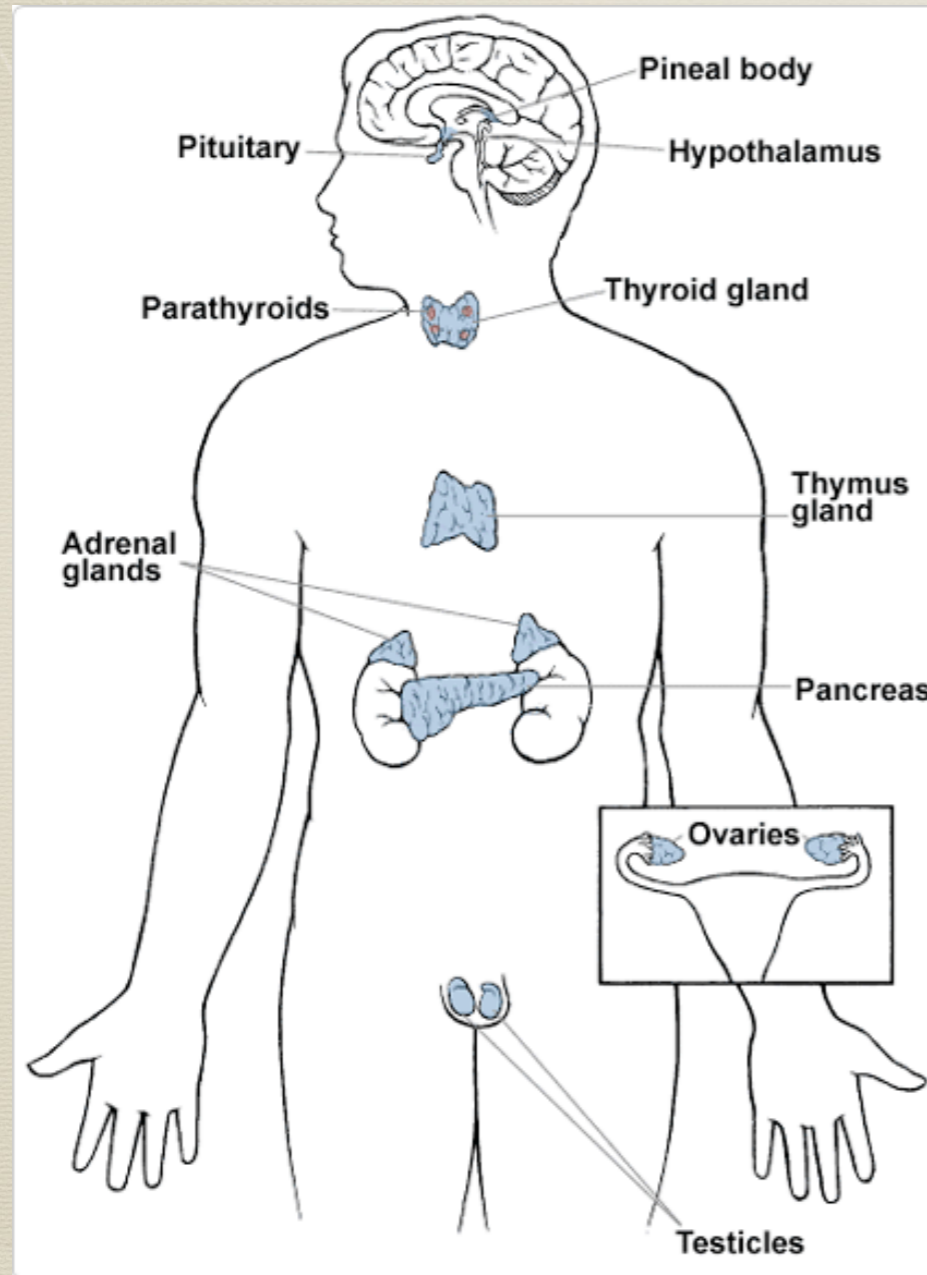
Main Parts: brain, spinal cord, and nerve cells throughout your body

Endocrine System

- * Controls many body processes using chemicals called hormones
- * Hormones control your growth, development, metabolism (breaking down food for energy), and reproduction



Organs of the Endocrine System



Main Parts: glands, pancreas, ovaries, testes

Reproductive System

- * Produces sperm (male) and egg (female) cells used to create offspring -
- * Controls male and female characteristics

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