

Organ Systems of the Human Body

Like a well oiled machine!



How is the human body similar to a machine, like a car?

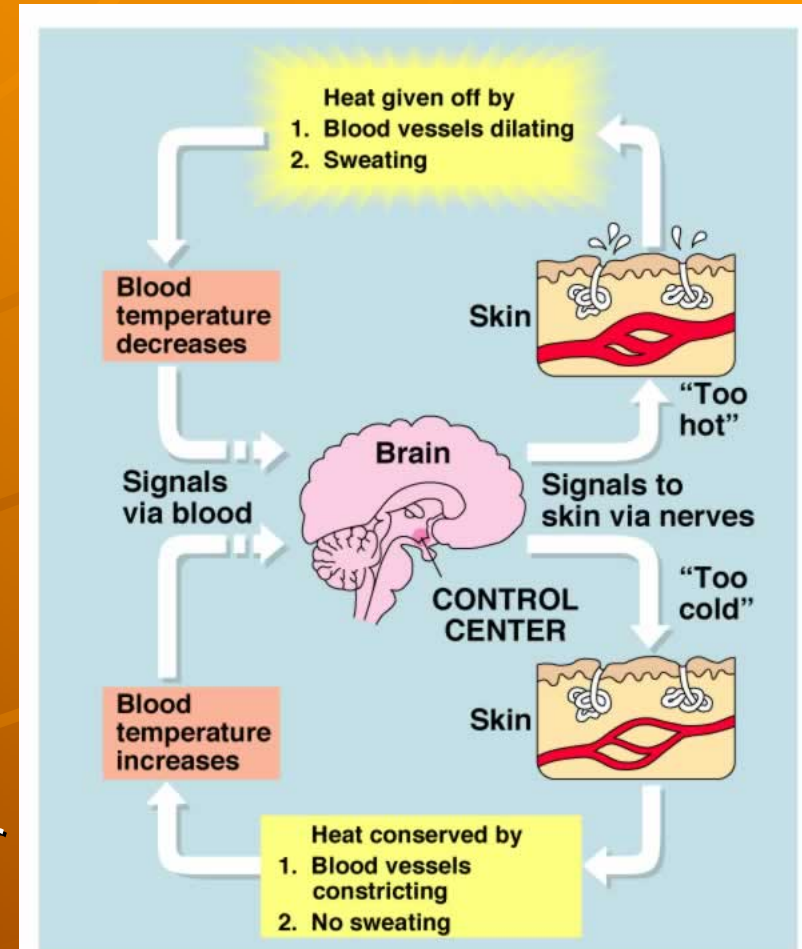
- ✦ Lungs (respiratory) carry oxygen to our blood & heart (circulatory) pumps blood throughout the body
- ✦ Circulatory system and excretory system... urinary system removes waste from blood
- ✦ Digestive system & circulatory system – eats food, provides energy & circulatory system moves it around the body
- ✦ Nervous & muscular system – nervous system sends messages & muscles carry them out (ex: touching a hot stove)
- ✦ Muscular & skeletal systems work together to help move
- ✦ Respiratory brings in a virus & immune fights it
- ✦ Integumentary & muscular work together to protect organs
- ✦ Nervous system communicates with the endocrine system to produce hormones
- ✦ Circulatory system & muscular pump blood throughout the body
- ✦ Muscular & reproductive – woman in labor
- ✦ Circulatory brings CO₂ to the lungs (resp), lungs get rid of it
- ✦ Skeletal system protects/supports spine (nervous)
- ✦ Skeletal holds skin in place and they both give us shape





Homeostasis

- ✦ All organ systems work together to achieve homeostasis in the body.
- ✦ Homeostasis is the ability of an organism to keep a stable internal environment, despite changes to its internal or external environment.
 - Temperature, pH, water levels, blood sugar, blood pressure, O_2 , CO_2



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You be the expert!

- ◆ You will work with a partner to...
 - Investigate the main functions, organs, and structures of an organ system.
 - Describe ways that the organ system works with another organ system in the body to help maintain homeostasis.
 - Display your work in a mini poster to share with the rest of the class.

Organ System Mini Poster

1. Function

Bullet list sentences describing the important jobs the organ system does in the body.

2. Main Organs, Cells, or Other Important Structures of the Organ System

Bullet list the structures & a brief description of what they do.

Example:

- **Heart:** pumps blood throughout the body.

Name of Organ System

3. Pictures or Diagrams of Organs, Cells, or Other Important Structures

Neatly draw AND LABEL pictures or diagrams of some of the most important structures or cells associated with your organ system.

4. Describe one way that the _____ system works with the _____ system.

When you receive your organ system assignment write the name of that organ system in the 1st blank and the name of the smaller organ system in parentheses in the 2nd blank.