

Grade 5 Science
Week of October 5 – October 9

Body Systems

In a multicellular organism, such as humans, cells are specialized and organized into tissues. Groups of similar cells that have a common function form a **tissue**. All of our cells work together.

Groups of tissues having a common function are organized into **organs**. Some examples of organs in your body include the heart, lungs, kidney, liver, skin, eye, brain, and ears. Some examples of organs in plants are the roots, stems leaves, stamens, and ovaries.

Groups of organs having a common function form an **organ system**. The human body is made up of many systems, including the:

- digestive system
- respiratory system
- circulatory system
- musculoskeletal system

Everything in your body is working together to make sure that you function properly. Specialized cells work together to form tissue. Tissue works together to form an organ. Organs work together to form a system. And your systems work together to help you survive and thrive!

For example, think about your musculoskeletal system, which is the system that is made up of bones and muscles. What if we didn't have bones? Our body would have no structure, it would be a blob on the floor! How do you think this would affect other systems in your body?

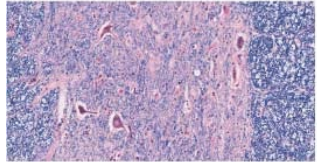
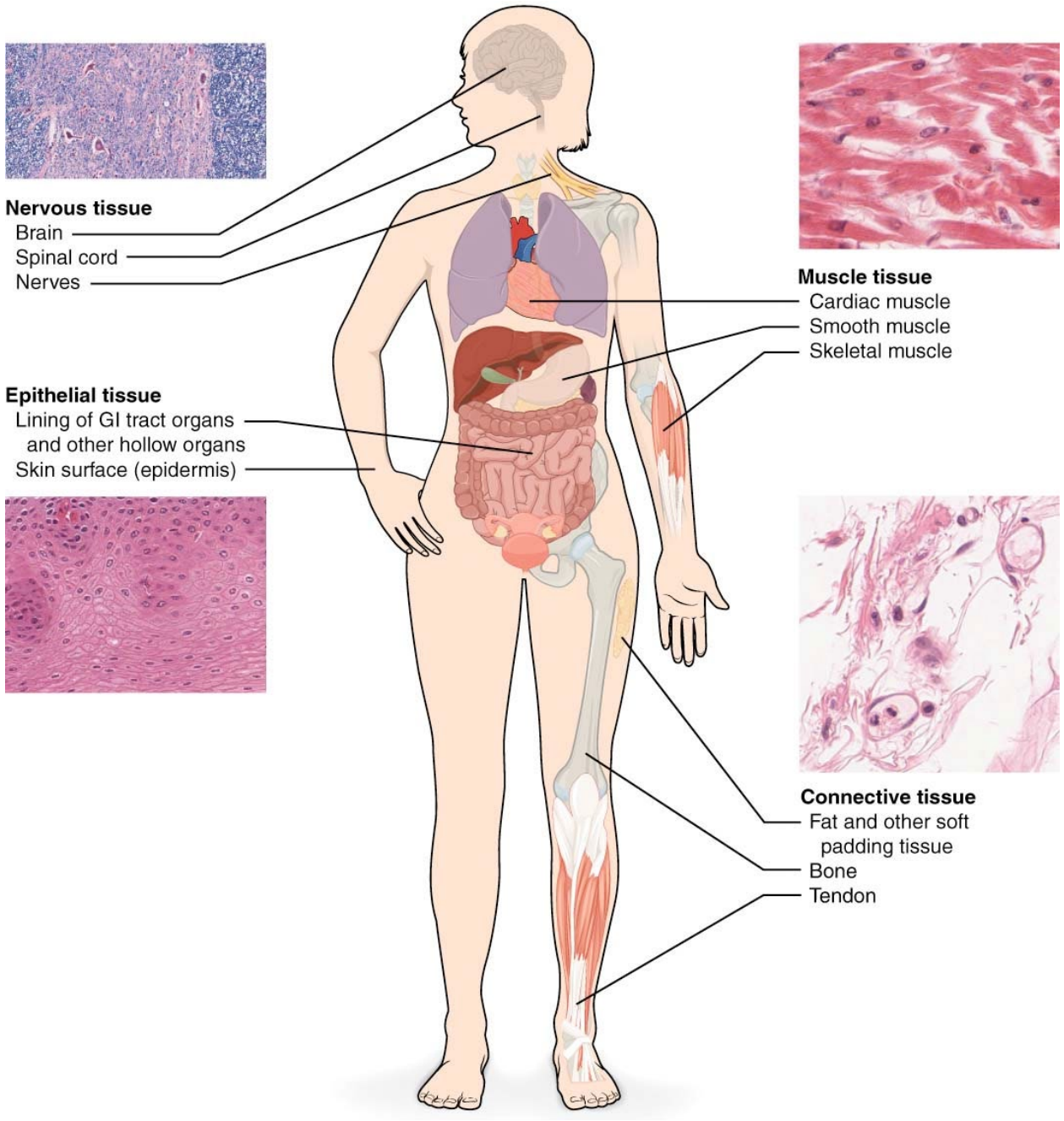


Introduction to Body Systems:
<https://youtu.be/v0gmB2RgJbl>

Tissues

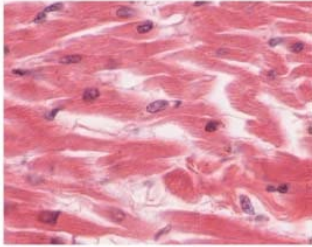
There are four types of tissues in the human body:

muscle tissue	helps the body move
nerve tissue	is crucial for our safety because it tells us how to respond to various changes inside and outside the body
connective tissue	holds other tissues together, and it protects and insulates organs
epithelial tissue	covers our body and the surface of various internal organs



Nervous tissue

- Brain
- Spinal cord
- Nerves

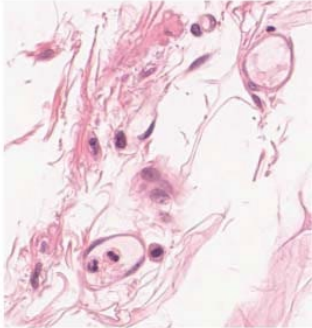
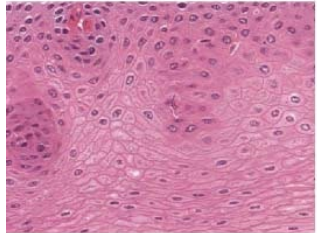


Muscle tissue

- Cardiac muscle
- Smooth muscle
- Skeletal muscle

Epithelial tissue

- Lining of GI tract organs and other hollow organs
- Skin surface (epidermis)



Connective tissue

- Fat and other soft padding tissue
- Bone
- Tendon

What would happen to our body if we didn't have bones?

Complete the following definitions:

Muscle tissue:

Nerve tissue:

Connective tissue:

Complete the flow chart.

Example:

