

NAME: _____

Types of Tissues

Go to : http://training.seer.cancer.gov/anatomy/cells_tissues_membranes/tissues/

Answer the following questions: (6 points)

What fills the spaces between cells?

What can be found in this material?

List the four types of tissue.

Click on Epithelial Tissue

Epithelial Tissue (13 points)

List 6 different uses of epithelial tissue:

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-
-
-
-
-

Where is epithelial tissue found in the body?

What are some functions?

List the three different shapes of epithelial tissue.

Draw or show a picture of pseudostratified columnar tissue below.

Where is this type of tissue found?

Click on Connective Tissue at the top of the page.

Connective Tissue (14 points)

List four uses for connective tissue.

-
-
-
-

What are the three most common types of cell found in connective tissue?

List 7 types of connective tissue. Do any of these seem out of the ordinary?

Click on Muscle Tissue at the top of the web page.

Muscle Tissue (5 points)

What type of blood flow is needed for muscle tissue?

List three different types of muscles.

Mark above which are under voluntary control, and which are not by writing "V" or "N" next to the type of muscle.

Click on Nervous Tissue at the top of the web page.

Nervous Tissue (12 points)

Where is nervous tissue found?

List some of the responsibilities of nervous tissue.

What powers this tissue?

List the three parts of a neuron.

Find a picture on the internet and draw a neuron below.

What are cells that are part of nervous tissue, but not responsible for sending impulses.

Name some of their responsibilities.

Visit <http://www.pathguy.com/histo/002.htm> and look at the diagram that is pictured below.

This is a pancreatic duct. Its inner surface is lined (as almost all surfaces must be) by an epithelium that makes up most of its thickness. Surrounding the epithelium are strands of collagen that are continuous with the surrounding fibrous tissue.

Find, draw and label:

- the epithelium of the little duct; notice both cytoplasm and nuclei
- the fibrous tissue, with many strands of collagen surrounding the duct

Click on the “answers” button to see if you were right!

Go to <http://www.pathguy.com/histo/003.htm>

This is skeletal muscle. For now, just focus on telling the cells from what is between them, and recognizing their nuclei. For now, you will have to trust us that these are multinucleated single cells, while the epithelial layer you saw in the last frame was composed of many uninucleate cells.

Draw, find and label: (1 point)

- skeletal muscle cells ("skeletal muscle fibers")
- skeletal muscle cell nuclei.
- collagen fibers between the muscle fibers

<http://www.pathguy.com/histo/013.htm>

Read the information on the webpage.

Draw, find and label (2 points)

- epidermis
- epidermal cell borders
- dermis
- cells of the lower epidermis
- active nuclei (nucleoli, lots of euchromatin) in the lower and mid-epidermis
- inactive nuclei in the upper epidermis
- melanocytes

Hotshots: Find blood vessels in the dermis, perpendicular to the surface.

Check your answers!

Go to <http://www.pathguy.com/histo/020.htm>

Look at the diagram below, read the information on the page, and label the following things on the diagram below:

find and label: (1point)

- red cells in the blood vessel
- red cells outside the blood vessel (hemorrhage)
- neutrophil white blood cells
- fat cells

Visit [Histology World](#) and along the left, choose histology games. Try the histology anagram game and Fling the Teacher. Come back later... see how well you do!