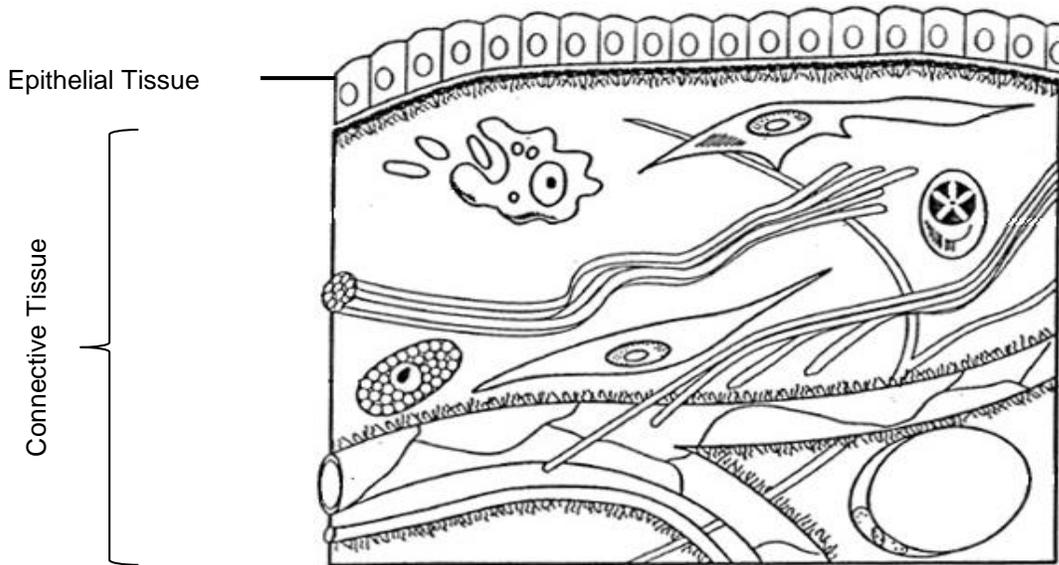


**Connective Tissue  
Honors Anatomy**

Using different colors and the list below, color and label the different parts within connective tissue.



- |                                    |                                       |                                  |  |
|------------------------------------|---------------------------------------|----------------------------------|--|
| <input type="radio"/> Adipose cell | <input type="radio"/> Collagen fibers | <input type="radio"/> Fibroblast | <input type="radio"/> Matrix           |
| <input type="radio"/> Capillary    | <input type="radio"/> Elastic fibers  | <input type="radio"/> Macrophage | <input type="radio"/> Reticular fibers |

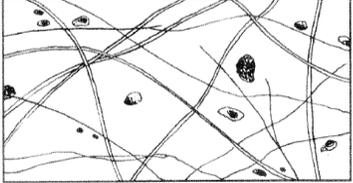
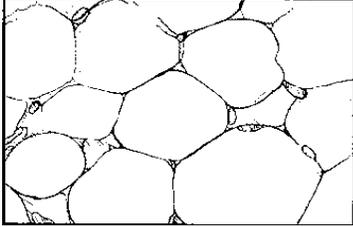
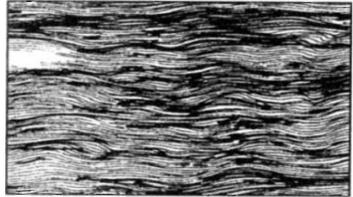
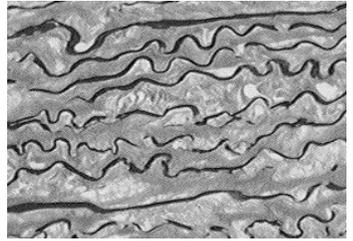
1. List the 7 functions of connective tissue.

2. Connective tissue is classified by its \_\_\_\_\_, which is largely responsible for the functional characteristics of each connective tissue type making it the most diverse of all types of tissues.

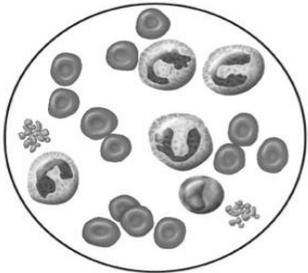
a. List 3 things found within the extracellular matrix of connective tissue.

1. \_\_\_\_\_ are cells that make protein fibers and ground substance in the extracellular matrix of fibrous connective tissue.
  - a. \_\_\_\_\_ are bundles of white fibers resemble rope, are flexible, but resists stretching.
  - b. \_\_\_\_\_ are yellow fibers that have the ability to be stretched and then recoil back to its original shape.
  - c. \_\_\_\_\_ are short collagen fibers that branch to form a supporting network.

Fill in the table below by identifying the name of the connective tissue, one location in the body, and its functions.

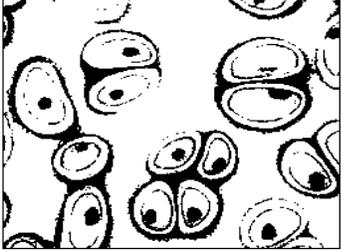
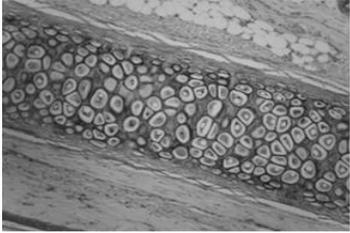
		Name of CT	Location in Body (1)	Functions
<b>Fibrous Connective Tissue</b>				
				
				
				

- \_\_\_\_\_ are the main cells of fibrous connective tissue whose function is to make extracellular fibers.
- The fat in adipose tissue is used as a source of \_\_\_\_\_ along with acting as insulation.
- For dense connective tissue, explain what it means to be "regular" versus "irregular."

		Name of CT	Location in Body (1)	Functions
<b>Blood</b>				

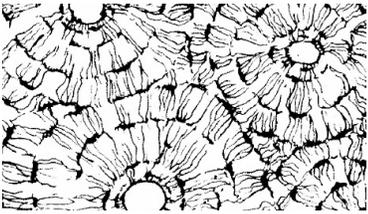
- List the 4 things that make up blood.

**Cartilage**

	Name of CT	Location in Body (1)	Functions
			
			
			

1. Cartilage cells are called \_\_\_\_\_.
- a. Cartilage cells are housed in an encasing called a \_\_\_\_\_.
2. Cartilage is \_\_\_\_\_, which means that it lacks a direct blood supply.
- a. Because cartilage lacks a direct blood supply, it \_\_\_\_\_ very slowly.

**Bone**

	Name of CT	Location in Body (1)	Functions
			
			

1. Bone cells are called \_\_\_\_\_.
2. The mineral that gives bone its strength is \_\_\_\_\_.
3. The prefix osteo- means \_\_\_\_\_.