

Name: \_\_\_\_\_

Total Points: 26

## Tissues

Please use the notes on Tissues to complete this live worksheet.

Fill in the blanks with correct answer. (11 pts)

1. \_\_\_\_\_ are groups of cells working together that help to form part of the plant organs and have one or more functions.
2. Plant tissues are divided into three groups:

\_\_\_\_\_, \_\_\_\_\_, and  
\_\_\_\_\_.

3. \_\_\_\_\_ is the outermost layer or layers of tissue that surrounds the plants
4. \_\_\_\_\_ is the tissue associated with the vascular system
5. \_\_\_\_\_ is the tissue that is not epidermal or vascular and makes up a large percentage of the plant tissue.
6. Animal tissues are divided into four groups:

\_\_\_\_\_,  
\_\_\_\_\_,  
\_\_\_\_\_, and  
\_\_\_\_\_.

Complete the tables:

### 7. Epithelial Tissues (4pts)

Cell shape	Description	Location
squamous		simple: lung alveoli, capillaries stratified: skin, mouth
cuboidal		glands, renal tubules
	tall, narrow, nucleus toward base tall, narrow, nucleus along cell	simple: digestive tract pseudostratified: respiratory tract
transitional	round, simple but appear stratified	

## 8. Connective Tissues (6pts)

Tissue	Cells	Fibers	Location
loose/areolar	fibroblasts, macrophages, some lymphocytes, some neutrophils		around blood vessels; anchors epithelia
dense, fibrous connective tissue	fibroblasts, macrophages,	mostly collagen	
cartilage		hyaline: few collagen fibrocartilage: large amount of collagen	shark skeleton, fetal bones, human ears, intervertebral discs
bone	osteoblasts, osteocytes, osteoclasts	some: collagen, elastic	
adipose	adipocytes		adipose (fat)
blood	red blood cells, white blood cells	none	

## 9. Muscular Tissue (5pts)

Type of Muscle	Striations	Nuclei	Control	Location
smooth	no		involuntary	
skeletal	yes		voluntary	skeletal muscles
cardiac		single, in center		heart