

Animal Tissue (Epithelium)

Student Name: _____ Period: _____

Introduction:

In this unit we will study groups of similar cells that work together to perform a function. Such a group of cells is called a tissue.

Read and follow the directions for the use of the micro slide viewer and the microslide on the envelope attached to the test folder and holding the slide.

Examine each slide and study the description in the text folder. After studying each slide and the printed text, answer the question for that slide on this worksheet. If you don't know the answer, go on to the next slide and question. You may find the answer as you learn more about the subject. Draw what you see and you colored pencils.

Slide 1: Trachea (50X)

a. Draw what you see in this slide.

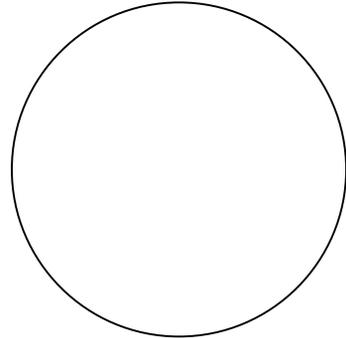
b. Identify the labeled parts:

A: _____

B: _____

C: _____

D: _____



c. Another name for the trachea is _____

Slide 2: Trachea (180X)

a. Draw what you see.

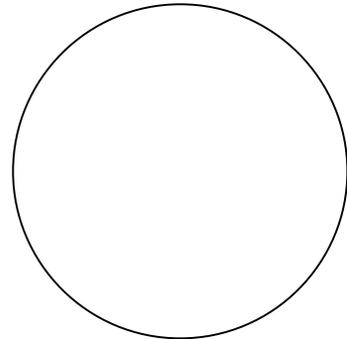
b. Identify the labeled parts:

A: _____

B: _____

G: _____

D: _____



c. Approximately how much larger do the parts appear in this slide than in slide 1? _____

Slide 3: Ciliated Columnar Epithelium

a. Draw what you see in this slide.

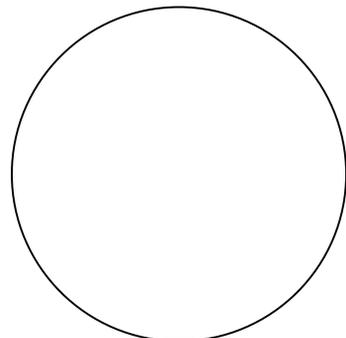
b. Identify the labeled parts:

A: _____

D: _____

G: _____

L: _____



c. On your drawing for slide 2 draw a circle around the section that was magnified to produce slide 3.

d. What is the function of the part labeled L? _____

e. What characteristic of the shape of the cells labeled (a) accounts for their name?

Slide 4: Simple Cuboidal Epithelium

a. What is the function of the gland seen in this slide? _____

b. Why is this tissue called simple? _____

c. What is the red material between the cells? _____

Slide 5: Cartilage

a. What is the function of the cartilage tissue labeled (d) on this slide?

b. Cartilage is (softer than) (harder than) (as hard as) bone. Underline your choice.

c. Bend your ear. What tissue supports your ear but allows it to bend? _____

Slide 6: Esophagus epithelium

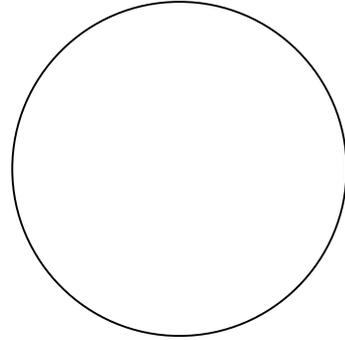
A. Draw what you see.

b. Identify the labeled parts:

A. _____

B. _____

C. _____



c. The tissue labeled (b) is described as stratified and squamous. What does this mean?

Stratified means _____

Squamous means _____

d. What is the function of the structure labeled (d)? _____

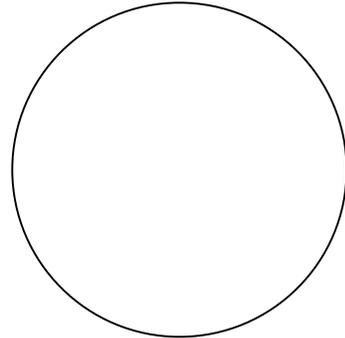
Slide 7: Simple Squamous epithelium

a. Draw what you see in this slide.

b. Identify the labeled parts:

A. _____

B. _____



c. How does the lining (b) in this slide compare with the lining (b) in slide 6?

Slide 8: The Urinary Bladder

a. How do the cells of this tissue permit the bladder to expand and contract as required?

b. What are the tissues labeled (M) and (N)? _____

c. What is the function of the tissues labeled (M) and (N)?
