

Chapter 4- Lab- Tissue Identification

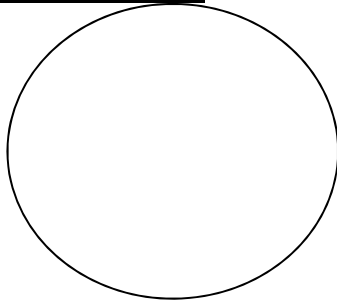
Epithelial, Connective, Muscle and Nervous Tissues

Purpose: To identify, compare and contrast the different types of epithelial and connective tissues.

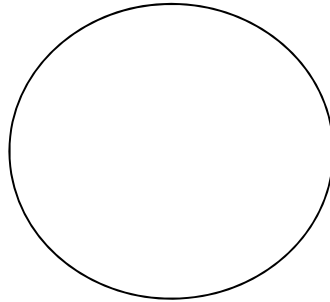
Materials: compound light microscope, prepared epithelial tissue slides, prepared connective tissue slides, prepared muscle tissue slides, prepared nervous tissue slides, ruler, colored pencils, pencil

- Procedure:**
- 1 Through a compound light microscope, you will observe each epithelial, connective, muscular and nervous tissue specimens.
 - 2 Draw and color all cells and tissues. Your drawing must fill up the entire field.
You must use pencil.
 - 3 View all specimens under high power. Determine total magnification.
 - 4 Use an **arrow** to point to the specific tissue you are to identify.
 - 5 Answer Study Questions 1-8 on page 68.

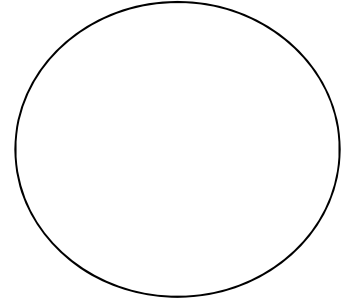
Epithelial Tissue



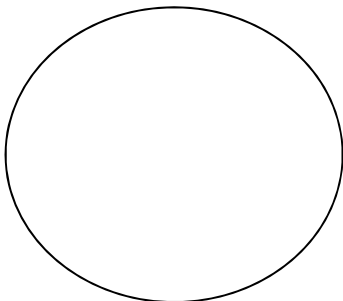
(Look @ edge of alveoli)
 Specimen: Simple Squamous
 Slide name: _____
 Slide letter: O
 Total mag: _____



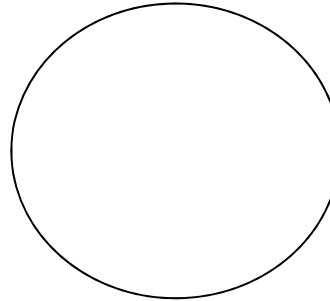
(Look for the ring of cube shaped cells)
 Specimen: Simple Cuboidal
 Slide name: _____
 Slide letter: A
 Total mag: _____



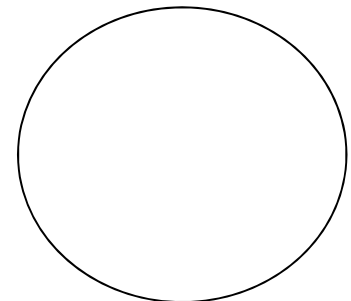
(Look @ the inner area of the lumen)
 Specimen: Simple Columnar
 Slide name: _____
 Slide letter: S
 Total mag: _____



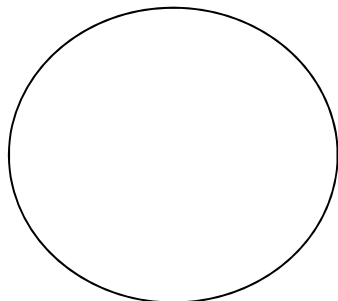
(Look @ the upper surface of tissue)
 Specimen: Stratified Squamous non-keratinized
 Slide name: _____
 Slide letter: P
 Total mag: _____



(Look @ upper surface of tissue)
 Specimen: Stratified Squamous keratinized
 Slide name: _____
 Slide letter: N
 Total mag: _____



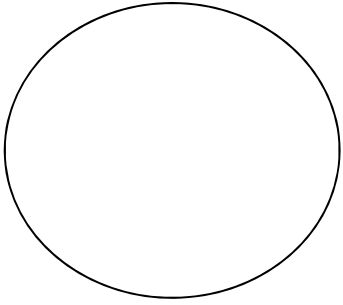
(Look @ the inner lining of the stomach)
 Specimen: Pseudostratified Columnar
 Slide name: _____
 Slide letter: R
 Total mag: _____



Specimen: Transitional
 Slide name: _____
 Slide letter: C
 Total mag: _____

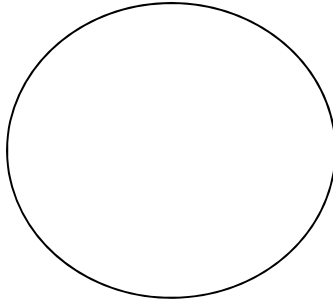
(Look for stratified cuboidal tissue)

Connective Tissue



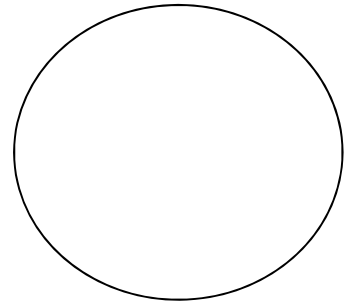
(Look @ the outer edge of the specimen)

Specimen: Adipose
Slide name: _____
Slide letter: Y
Total mag: _____



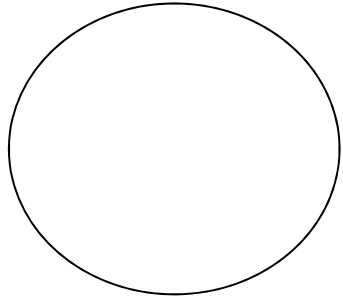
(Look @ the lower area of the specimen)

Specimen: Dense Irregular
Slide name: _____
Slide letter: N
Total mag: _____

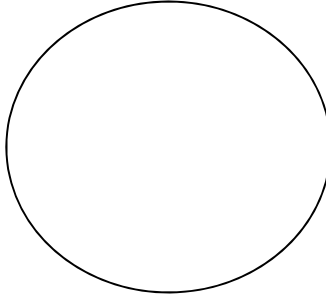


(Look for the "eyes")

Specimen: Hyaline Cartilage
Slide name: _____
Slide letter: D
Total mag: _____



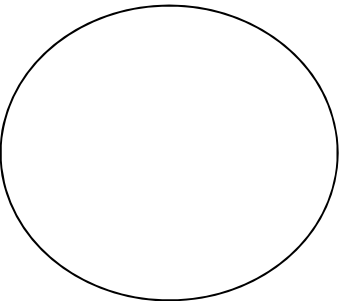
Specimen: Compact
Slide name: _____
Slide letter: F
Total mag: _____



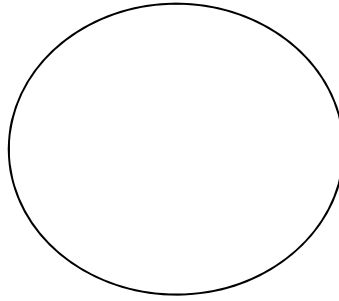
(Focus on a dark purple cell to see all of blood)

Specimen: Blood
Slide name: _____
Slide letter: G
Total mag: _____

Muscle Tissue

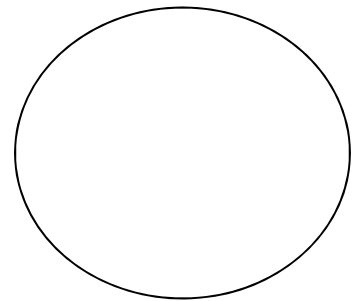


Specimen: Skeletal
Slide name: _____
Slide letter: H
Total mag: _____



(Look @ the outer edge of the passage way)

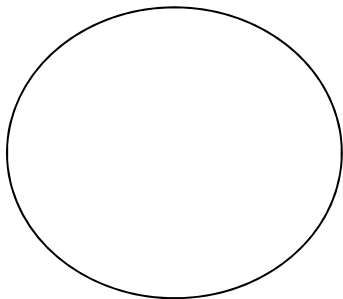
Specimen: Smooth
Slide name: _____
Slide letter: S
Total mag: _____



(Look @ specimen on the right of slide)

Specimen: Cardiac
Slide name: _____
Slide letter: I
Total mag: _____

Nervous Tissue



Specimen: Neuron
Slide name: _____
Slide letter: K
Total mag: _____

(Find and focus on a neuron)

