

**Chapter 4- Lab (Honors)
Tissue Identification**

Purpose: To identify, compare and contrast the different types of human body tissues.

Materials: compound light microscope, prepared epithelial tissue slides, prepared connective tissue slides, prepared muscle tissue slides, prepared nervous tissue slides

Technology Needed: Camera (smart phone or other electronic device), Google Drive App, Computer with internet access

Procedure:**Day 1****During the Lab**

1. You will be given a set of tissue slides. The teacher will show you the tissues that you must identify on the flex cam. Examples have also been provided for you in the chapter, lab section of the class website
2. Find the tissues beginning in low power and then find the image in high power.
3. Take a picture of the tissue under high power. Continue identifying and taking pictures of the assigned epithelial and connective tissues.
4. When you are finished taking all of the pictures, open the Google Drive app and upload all of your photos to your Google Drive.

Instructions for Uploading Pictures to the G-Drive App.

- a. Open the Google Drive App.
 - b. In the upper right hand corner of the screen is a "+" symbol. Tap on the "+" symbol.
 - c. Select "Upload Photos or Videos."
 - d. Select Camera Roll (iOS devices) or your phone's photo gallery.
 - e. Tap to select pictures you want uploaded to Google Drive.
 - f. Tap the " ✓ "
5. Your pictures will be uploaded to the location you chose.
- Computer Lab**
6. Once your pictures have been uploaded to your Google Drive, on your computer, open a tab for Google Classroom. Find the Assignment- Chapter 4- Lab- Tissue Identification.
 7. Click on the assignment and then click on the Lab Report template that I have created for you.
 8. Have your Google Master share their Lab Report template with each group member. This will allow all members to work on ONE lab report.
 9. Begin inserting the pictures onto the correct slide.
 10. Label the pictures using the label list provided on the slide. You will need to use the "Text Box," "Shapes," and/or "Lines" icons in the presentation task bar. An example of labeling has been provided.
 11. Answer the conclusion questions on your presentation.

Day 2**Computer Lab**

12. Before you turn in the lab, each non-Google Master must make a copy of the lab.
13. Open Google Classroom, click on the Assignment- Chapter 4- Lab- Tissue Identification.
14. Click "ADD." If you are the non-Google Master, select Copy of Chapter 4- Lab- Tissue identification. If you are the Google Master, select Chapter 4- Lab- Tissue Identification.
15. Click "TURN IN." A prompt will appear and once again you will click "TURN IN."

List of slides you will be using.

Epithelial Tissue

<u>Name of Tissue</u>	<u>Slide Letter</u>	<u>Hint Where to Locate</u>
Simple Squamous	O	Look at the walls of the alveoli
Simple Cuboidal	A	Look for ring formed of cube shaped cells
Simple Columnar	S	Look at the lining of the inner passageway
Stratified Squamous Keratinized	N	Look at the upper surface of the tissue
Pseudostratified Columnar	R	Look at the inner lining of stomach

Connective Tissue

<u>Name of Tissue</u>	<u>Slide Letter</u>	<u>Hint Where to Locate</u>
Adipose	Y or D	Look at the outer edge of the specimen
Dense Irregular	N	Look for where hair is embedded
Hyaline Cartilage	D	Look for the "eyes"
Compact Bone	F	
Blood	G	All cells are very tiny under high power