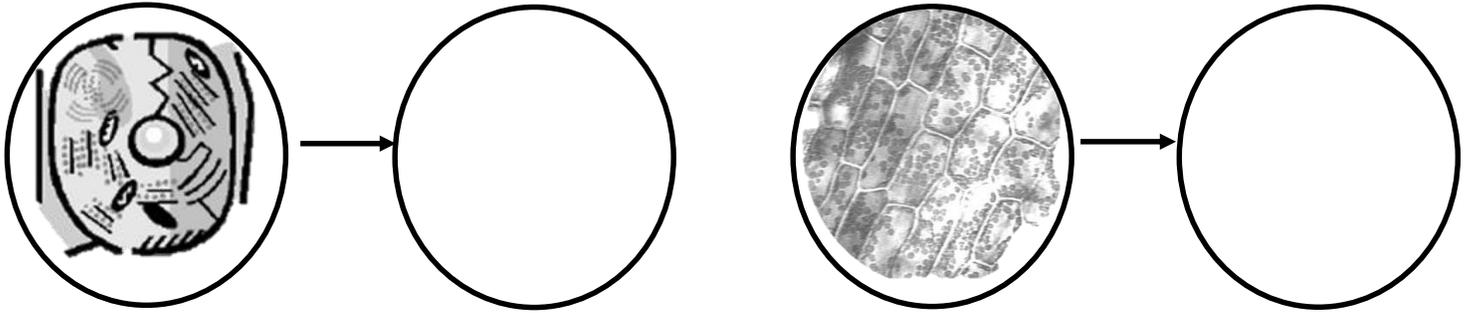


# Practice Field of View Drawings

One of the most fundamental skills in using a microscope is to be able to "draw what you see" without actually looking at what you're drawing...make sense? In future labs, much of your grade will be based on your ability to look into a microscope and produce a quality drawing based on what you see. The first step in this is to practice, practice, practice! The next two activities will help you to focus on the important details and make the sketch that will make me proud

When looking into the eyepiece of a microscope, your *field of view* is defined as the circular area of light visible to your eye. The column to the left represents what is seen in two example fields of view. In the fields of view to the right, draw exactly what you see in the images to the left. Be sure to focus on detail...positions, sizes, relationships, etc.



Lab Questions: Read the information provided at each station to answer the questions below.

Squamous Epithelium

1. Where does the epithelia line? \_\_\_\_\_
2. What is labeled 1 & 2 on the diagram? 1. \_\_\_\_\_ 2. \_\_\_\_\_

Columnar Epithelium

3. What is another name for basement membrane & what color is it stained? \_\_\_\_\_ & \_\_\_\_\_
4. What does microvilli do for a cell & by how much? \_\_\_\_\_ & \_\_\_\_\_

Ciliated Epithelium

5. How can you tell the difference between the pseudostratified columnar cells & the goblet cells in this slide? \_\_\_\_\_

Skin

6. Looking at the diagram, what is labeled as 1, 2, & 3? 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

7. Looking at the diagram, what is labeled as 6 & 7? 6. \_\_\_\_\_ 7. \_\_\_\_\_

White Fibrous Tissue

8. Tendons attach \_\_\_\_\_ 9. Tendon cells are called \_\_\_\_\_

Hyaline Cartilage

10. Describe the color of each type of cartilage: Hyaline: \_\_\_\_\_ Elastic: \_\_\_\_\_

Elastic Cartilage

11. List 3 places where elastic cartilage is found in the body: 1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_

Adipose Tissue

12. Describe the shape of adipose cells: \_\_\_\_\_

13. How many Joules of energy are produced from 1 g. of fat? \_\_\_\_\_ Joules

Smooth Muscle

14. Provide 6 examples of visceral locations where smooth muscle is found in the body

1. \_\_\_\_\_ 2. \_\_\_\_\_ 3. \_\_\_\_\_ 4. \_\_\_\_\_ 5. \_\_\_\_\_ 6. \_\_\_\_\_

Striated Muscle

15. Describe the shape of Myosin(e) & Actin(e): Myosin: \_\_\_\_\_ Actin: \_\_\_\_\_

16. What supplies the required energy for muscle contraction? \_\_\_\_\_