

## Title: Microscope Lab

### Purpose:

- to learn how to use a microscope
- to observe, draw, and describe human tissue cells

### Materials:

microscope	hair
microscope slides and cover slips	cheek cells
razor blade	<i>Elodea</i> leaves
tooth picks	cells from various fruits and vegetables
prepared microscope slides	pond water
letter e	methylene blue (stain)
crossed threads	Lugol's (stain)
natural fibers	poker chip
cork	
plant and animal cells	

### Procedure:

1. Observe, draw, and describe what you see in prepared slides under low (40 x) and high (100 x) power.  
(Use poker chip to draw the circle for the field of vision)  
Label drawings.....name of specimen, power, and relevant details
2. Make wet mounts of hair, cheek cells (stain with methylene blue, white or yellow onion skin (stain with Lugol's), purple onion skin, other fruits and vegetables).  
(Use poker chip to draw the circle for the field of vision)  
Label drawings.....name of specimen, power, and relevant details...such as cell membrane, cytoplasm, nucleus, starch granules, chloroplasts.....

### Results:

Drawings and descriptions

### Discussion:

Summarize what you did and comment on variety of cell types, shapes, and arrangements

### Conclusion: (10 words!)

State a conclusion about the variety of cell type, shape, or arrangement

### Reflection:

A personal statement about the activity, its relevance, whether you liked it, suggested improvements, etc.....

