Name: _____

Virtual Microscope Lab

Instructions

1. Go to https://www1.udel.edu/biology/ketcham/microscope/scope.html. You may have to download and/or enable/allow FlashPlayer. Please let me know if this is impossible on your device.



2. Turn your volume on for a tour of the microscope and use the labelled diagram handout to help you identify the various parts and functions. Play around with the dials and controls until you get a feel for how to use the microscope.

3. Observe the slide with the letter 'e' on it. You will need to use the Checklist panel on the left to get the best clarity and focus on the specimen. Work your way from the 4X objective lens all the way up to the 100X objective lens. **Focus and center the specimen with each increase in magnification**.

4. What do you notice about the orientation of the letter 'e'?

5. Observe each of the onion root tip, bacterial capsule, and human cheek smear. Write some of your observations (e.g. the shapes, colors, or other physical characteristics). Which do you find most interesting? Why?

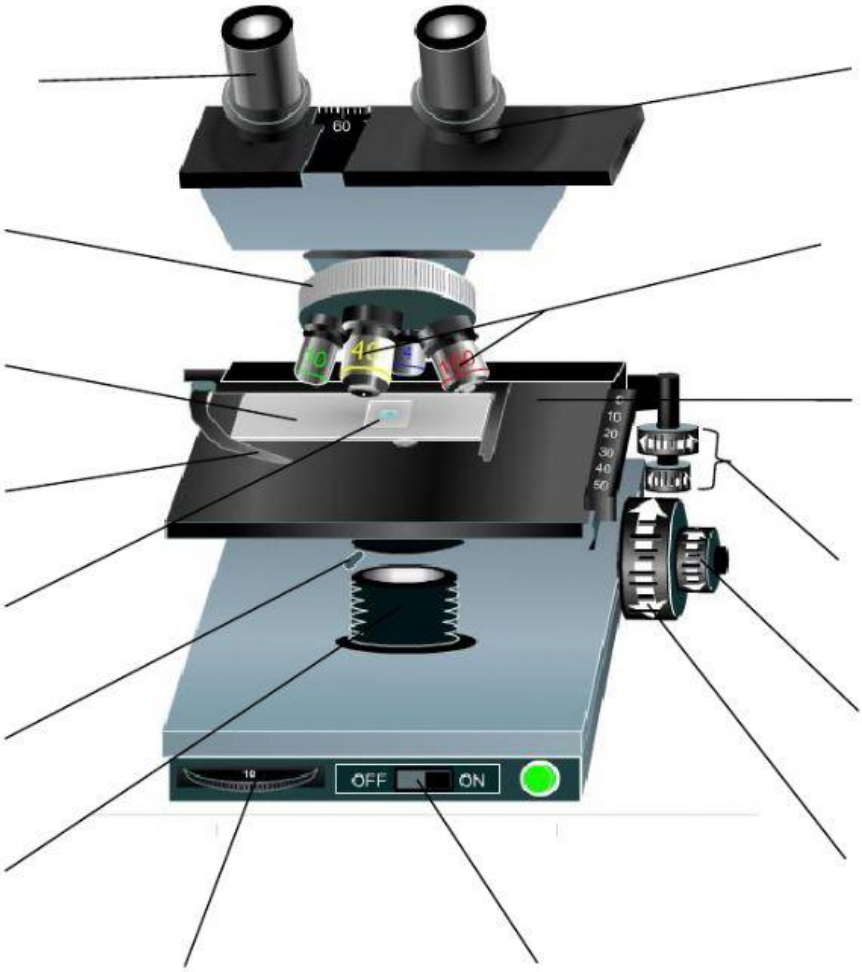
6. Write two questions or wonderings that popped into your head during this lab.

    1.

    2.

Label the Compound Light Microscope

Directions: Click and drag each label below to match the correct part of the microscope.



Ocular Lens

Iris Diaphragm

Microscope Slide

Fine Adjustment Knob

Ocular Adjustment

Stage Clip

Objective Lenses

Coarse Adjustment Knob

Light Source

Stage

Revolving Nosepiece

Rheostat

Slide Adjustment

On/Off Switch

Cover Slip