

Microscope Lab - Using the Microscope and Slide Preparation

PART A

Examine the microscope and familiarize yourself with the parts of the microscope – label the microscope picture at the back of the booklet.

1. Magnification

The magnification written on the ocular lens (eyepiece) is _____

The magnification on the Scanning objective _____ Low Power Objective _____ High Power Objective _____

What is the total magnification for each lens (multiply ocular times objective)

Scanning _____ Low Power _____ High Power _____

Scanning

Low Power

High Power

2. Diaphragm

Examine the diaphragm. Which setting makes the specimen the lightest? _____

The darkest? _____

3. Lenses

Twist the ocular lens, does yours have a pointer? _____ What is the purpose of the pointer?

What happens to your viewing field if you do not have an objective fully clicked into place.

4. Viewing a Slide

Obtain a prepared e slide. Focus the slide first with the scanning objective, then click to lower power and focus again. Finally, focus the slide under high power. Remember, at high power, you should ONLY use the fine adjustment knob.

Draw the e exactly as it appears in your viewing field for each magnification. The circles below represent your viewing field. The e should take up as much space in the drawing as it does in your viewing field while you're looking at it.

