

The Compound Microscope Review Sheet

I. Fill-in the chart

PART	FUNCTION
1. ocular lens	
2.	Controls amount of light being used; numbered 1-5
3.	The backbone of the microscope; place 1 hand here while carrying.
4.	4X, 10X, 40X
5.	Turns light on & off.
6.	Used for general focus on low & medium powers ONLY.
7.	You place your eye here to view specimen.
8. light source	
9.	You put on hand underneath here; bottom of microscope
10. stage	
11. stage clips	
12.	Connects the eyepiece to the revolving nosepiece; ours can rotate.
13.	Allows the objective lenses to be turned
14. hole in the stage	
15.	Conducts electricity to microscope.
16.	Used for sharp focus; can be used on all powers.

II. Use under low power

1. Always start with the diaphragm on #_____.
2. Before the microscope is plugged in, check:
 - a. _____
 - b. _____
 - c. _____
3. You place the slide on the _____.
4. *Circle one:* If your specimen is alive, you DO / DO NOT use the stage clips.
5. On low power, you can use both the _____ and _____ adjustment knobs to focus the specimen.

III. Use under high power

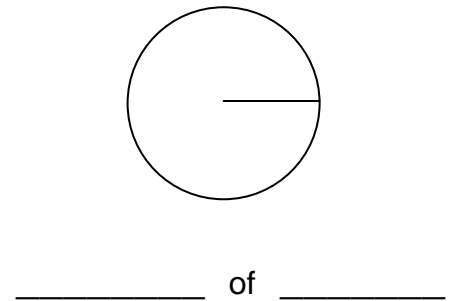
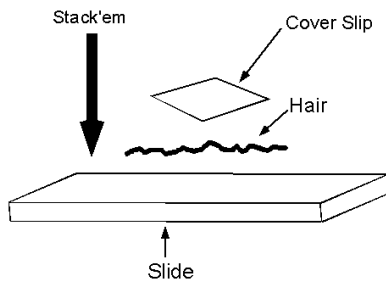
1. Before using high power you must general and sharply focus under the _____X and _____X objective lenses.
2. The high power objective lens is _____X.

3. When you switch lens powers, you must always watch from the side of the microscope so that the _____ and _____ do not hit.
4. If you lose the view of the specimen under high power, you go back to _____ power and re-focus.
5. If you lose the view of the specimen under medium power, you go back to _____ power and re-focus.

IV. Need to Know

1. When the microscope is not in use, turn the light _____ because _____
_____.
2. Do not ever use the coarse adjustment knob under _____ power.
3. Use _____ hands while turning the adjustment knobs.
4. Do not touch the actual lenses because _____
_____.
5. **Find the total magnification (show all work):**
Ocular lens- 10X
Objective lens- 25X

V. What are these?



VI. Put these steps in the correct order #1-7:

- a. _____ Look through the eyepiece, slowly turn the coarse adjustment knob until the specimen comes into view.
- b. _____ Make sure the low power lens is snapped into place.
- c. _____ Plug in the microscope and turn the light on.
- d. _____ Make sure the specimen is centered.
- e. _____ Lower the stage into its lowest position.
- f. _____ Look through the eyepiece, slowly turn the fine adjustment knob until the specimen is in the sharpest focus.
- g. _____ Put the diaphragm dial on the #5.

****Study your Labs, THIS review sheet, & all of your microscope worksheets.****