

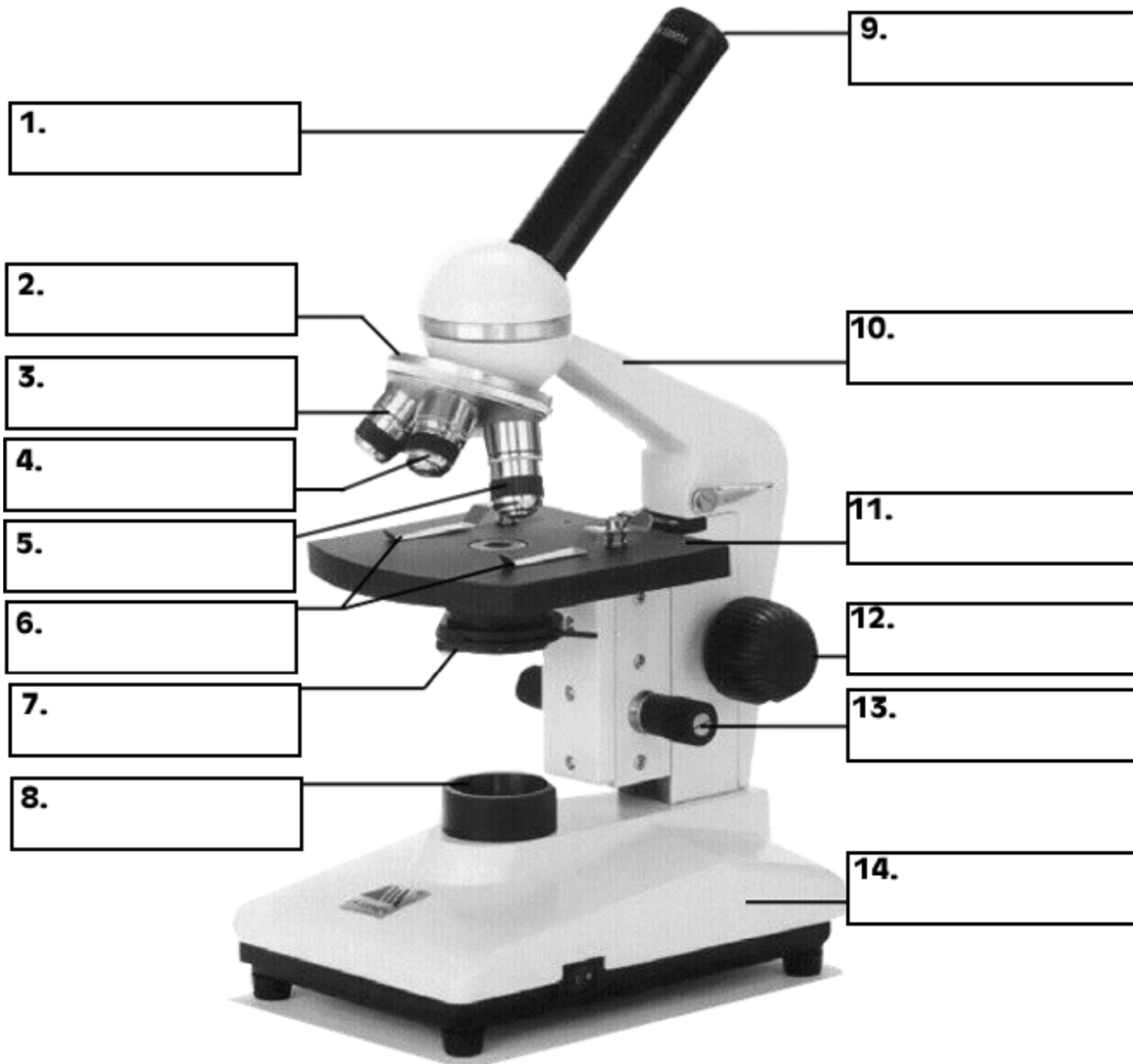
Name: _____

Date: _____

Microscopy: Parts & Observations

1. What are the parts of the microscope?

Label the parts of a microscope on the diagram below. (Use your text book – Page 52)



Word Bank

Stage
Fine Adjustment Knob
Stage clips
Diaphragm
Body Tube

Base
Arm
Coarse adjustment
Light source
Ocular Lens/Eyepiece

Low Power Objective Lens
High Power Objective Lens
Revolving Nosepiece
Med. Power Objective Lens

2. **What do the parts do?** Match the part of the microscope with its function.

- | | |
|--|----------------------|
| _____ Where the slide is placed | 1. Objectives |
| _____ Used to focus when using the low power objective | 2. Light Source |
| _____ Controls the amount of light reaching the specimen | 3. Arm |
| _____ Used to carry microscope | 4. Course adjustment |
| _____ Used to focus when using the high power objective | 5. Diaphragm |
| _____ The lens you look through, magnifies the specimen | 6. Eyepiece |
| _____ Supports the microscope | 7. Fine adjustment |
| _____ Magnifies the specimen | 8. Stage |
| _____ The light that sits below the specimen to see it clearly | 9. Base |

3. **Magnification:** Calculate the total magnification for each objective.

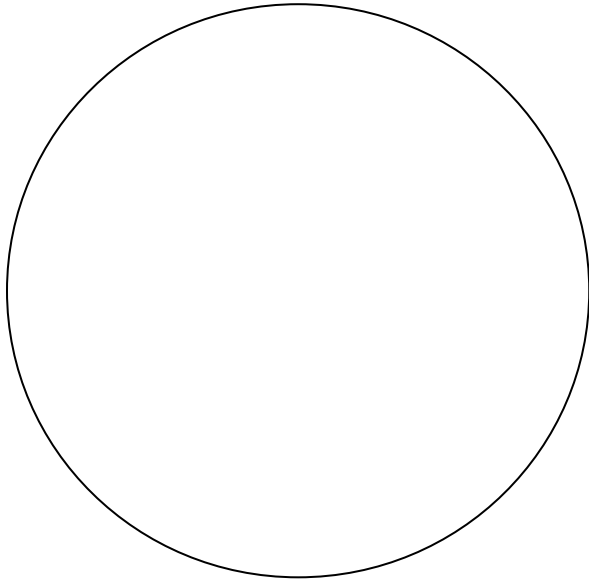
Eyepiece: 10X **Objectives:** 4X, 10X, or 40X

4X objective: _____ X _____ = _____

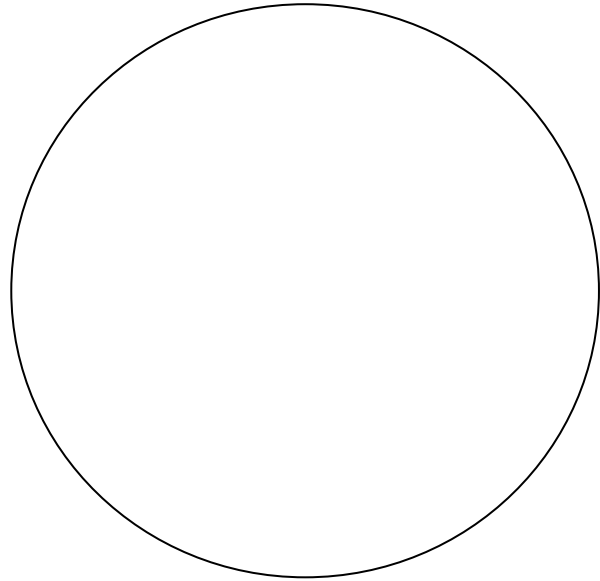
10X objective: _____ X _____ = _____

40X objective: _____ X _____ = _____

3. **Printed Letter:** Observe the letter with your naked eye and draw what you see in the first circle. Next, observe through the microscope and draw only what you see. Include the correct magnification.



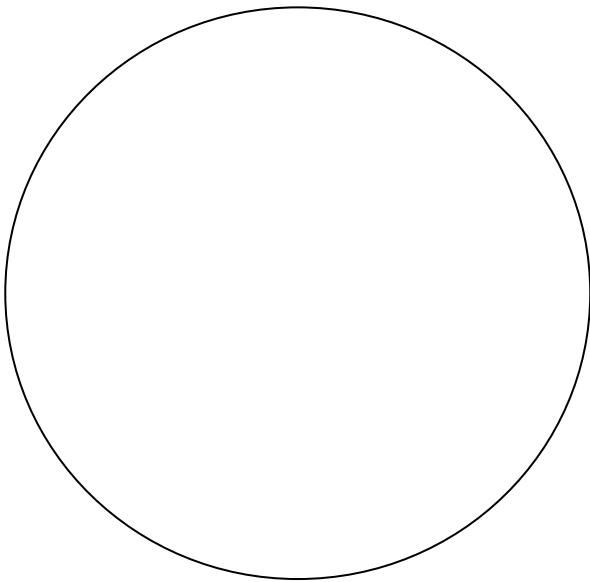
Naked eye



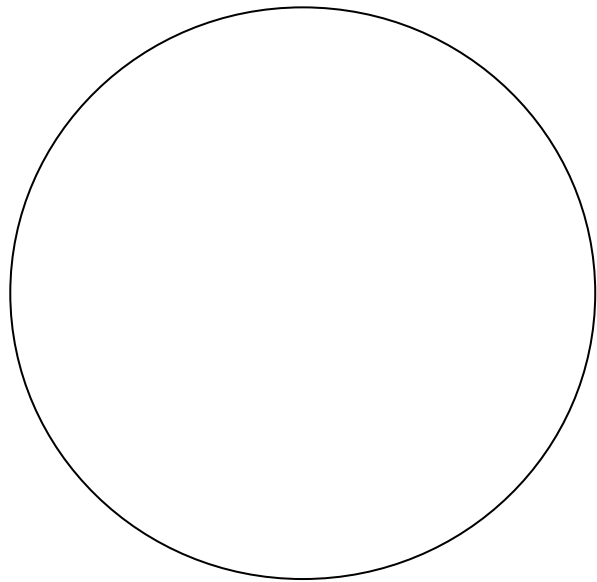
_____ **X**

What do you observe about the orientation and direction of the image?

5. **Onion Skin:** Observe the Onion Skin with your naked eye and draw what you see in the first circle. Next, observe through the microscope and draw only what you see. Include the correct magnification.



Naked eye



_____ **X**