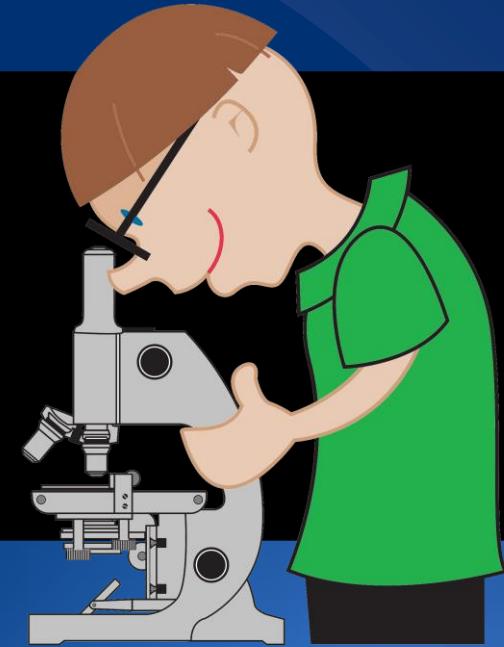


Microscope 101

How to Use a Light Microscope

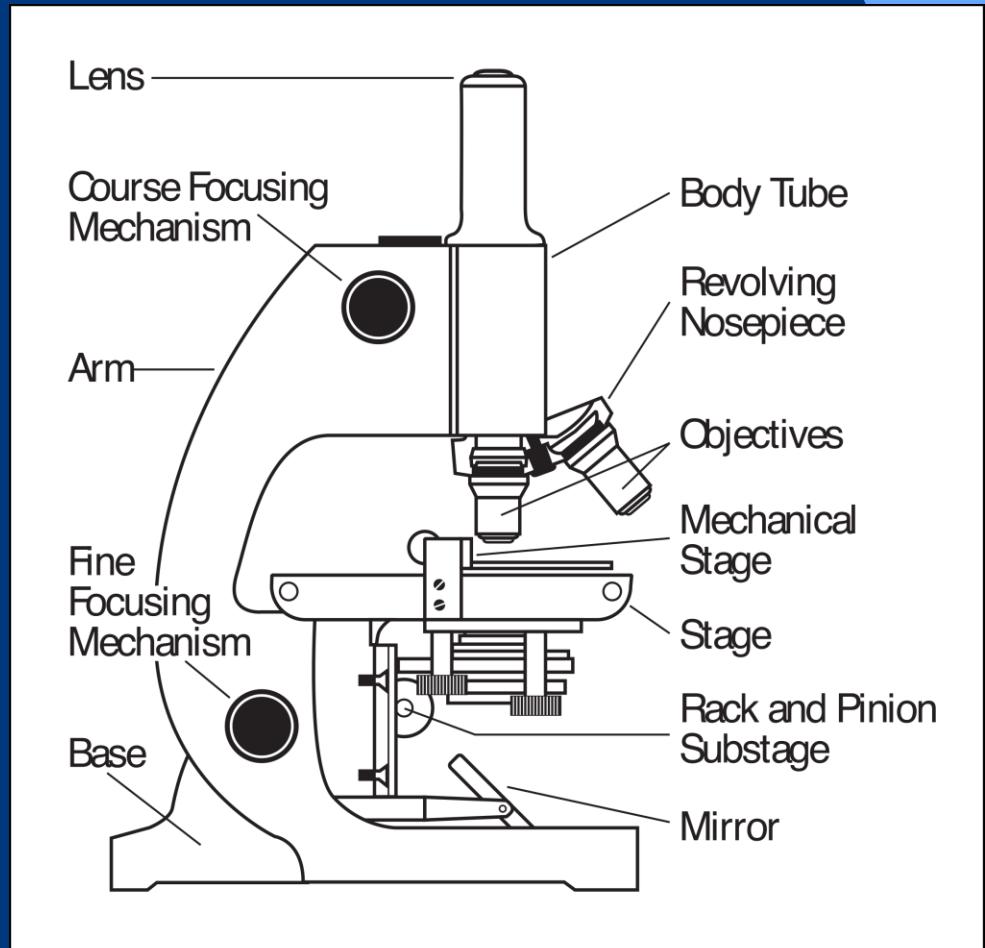
- PREVIEW -

Created By *Mr. and Mrs. Rooster* © TpT



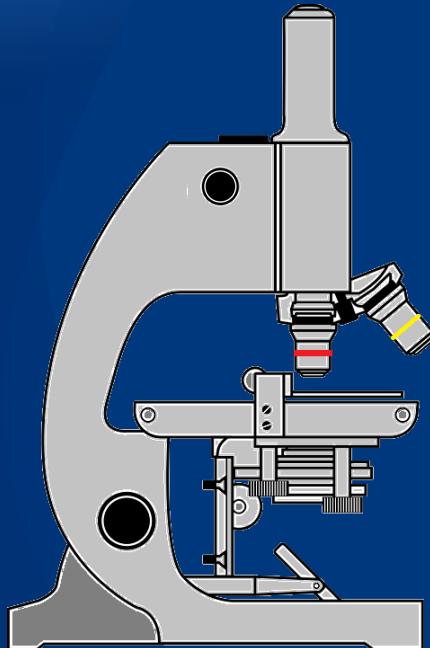
What is a Light Microscope?

- Light microscopes (optical microscopes) use **visible light** and a series of **lenses** to magnify an object
- You will need to know the parts of the microscope!



Light Microscopes

- There are many different versions of light microscopes, so make sure you can find each part on your own microscope!



Objectives: 4 Options for Magnification

1. Low Power

(Red Objective)

~~40x~~

2. Medium Power

(Yellow Objective)

~~100x~~

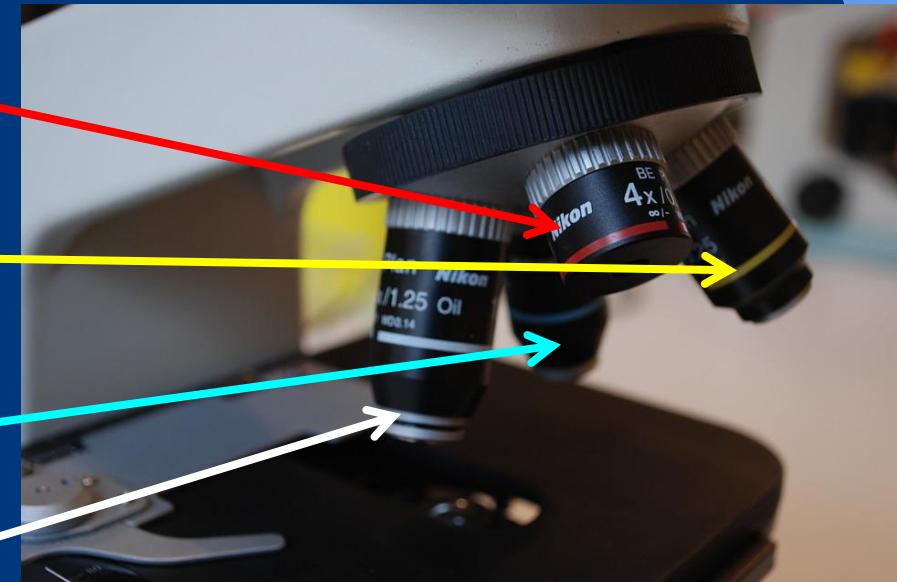
3. High Power

(Blue Objective)

~~400x~~

4. Highest Power

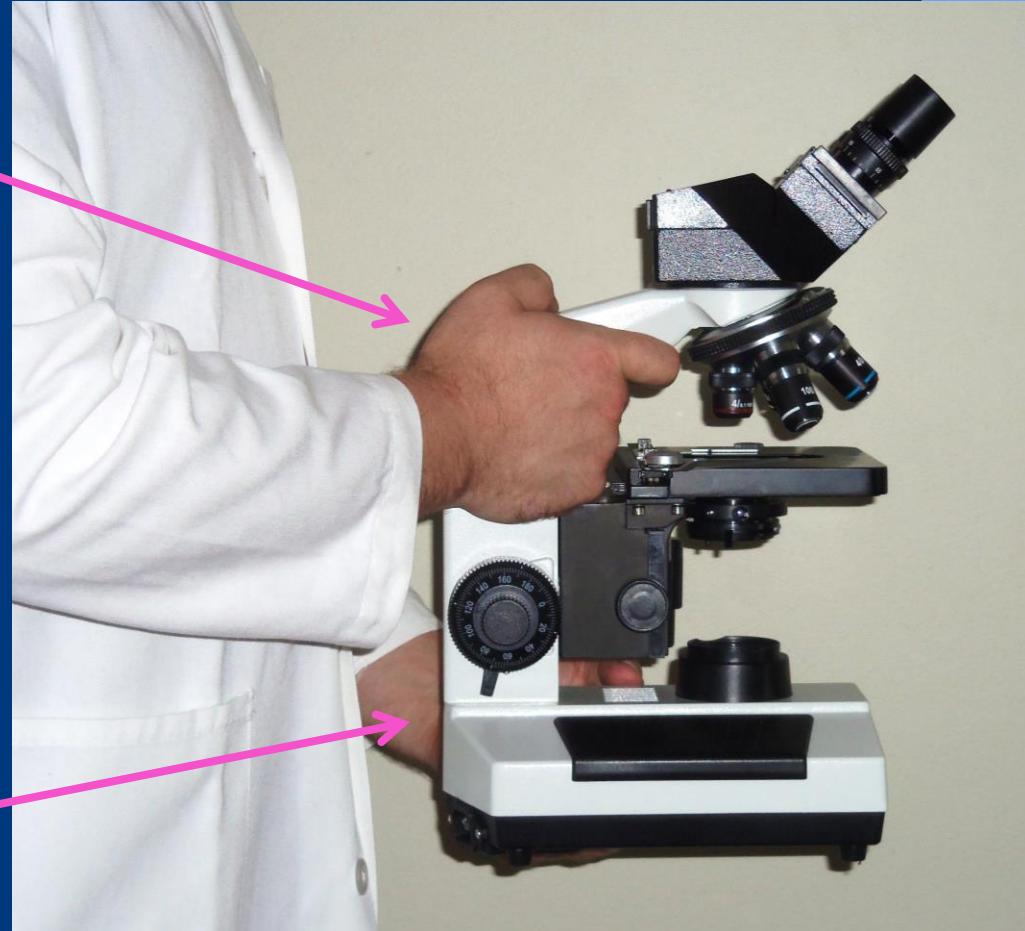
(White Objective - *Called Oil Immersion - Only used with oil!*)



Use other hand
to support the
arm

How to Carry a Microscope

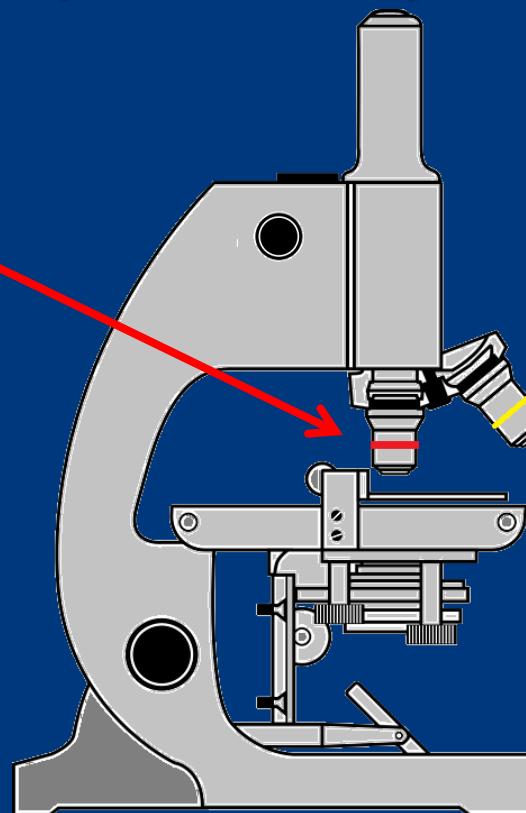
Use one hand to
hold the base



How to Use a Microscope – Step 1

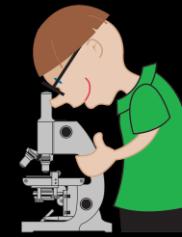
1. Start on **Low Power** (Red Objective)

-Make sure the objective above the mechanical stage is set to low power.



PREVIEW: Microscope 101

How to Use a Light Microscope



- This product includes **21 more slides** in PowerPoint so the slides are **EDITABLE** and contain **animation**.
 - There are 12 slides at the end of the PowerPoint which include **“Check for Understanding”** questions and their answers.
- **A student guided notes handout is included for this product.** There are two pages. The first page is a guided notes page that goes along with the PowerPoint and the second page includes a microscope for labeling and space to answer the Check for Understanding questions. Page 2 of the handout is shown below.

Check for Understanding

Work with a partner to label the microscope:

1. _____
2. _____
3. _____
4. _____
5. _____
6. _____
7. _____
8. _____
9. _____
10. _____
11. _____
12. _____

QUESTIONS

1. What objective do you use to first locate your specimen? _____
2. When using the coarse adjustment, what must you be careful of?
3. When do you use the fine focusing mechanism/knob?
4. When carrying the light microscope, what two parts of the microscope do you hold?
5. When you are finished with your lab, what should your microscope look like when you put it away?
6. What magnification does the microscope give for **each** of the following objective lenses?
A. Low Power Objective _____ C. High Power Objective _____
B. Medium Power Objective _____ D. Oil Immersion _____

