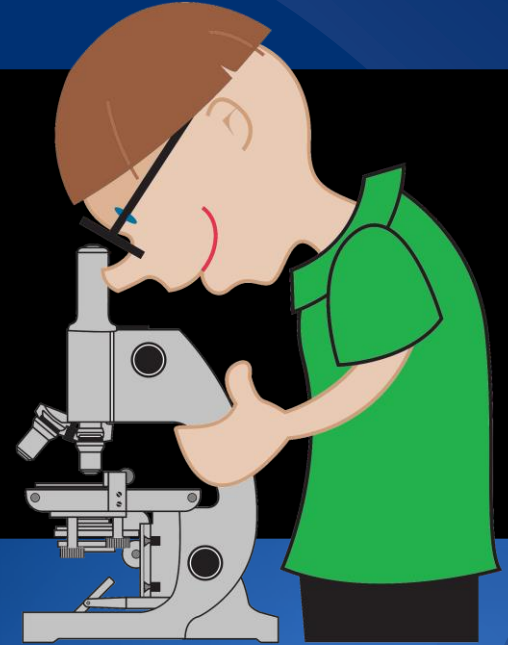


Microscope 101

How to Use a Light
Microscope

- PREVIEW -

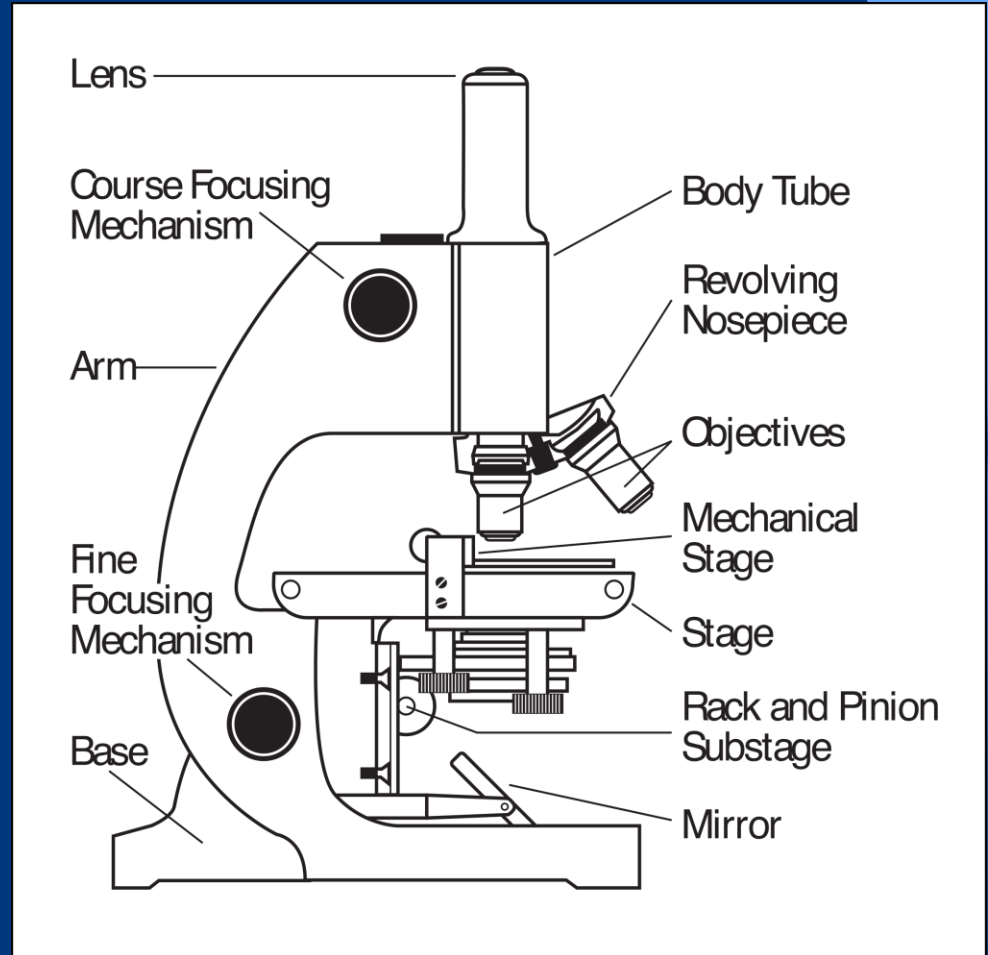


Created By *Mr. and Mrs. Rooster* © TpT



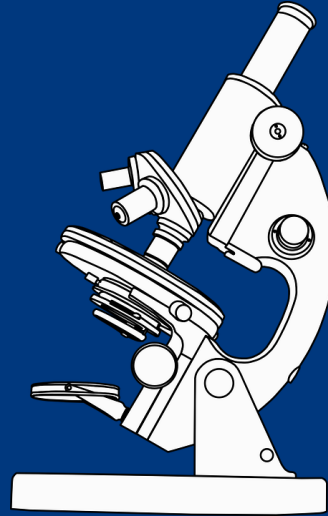
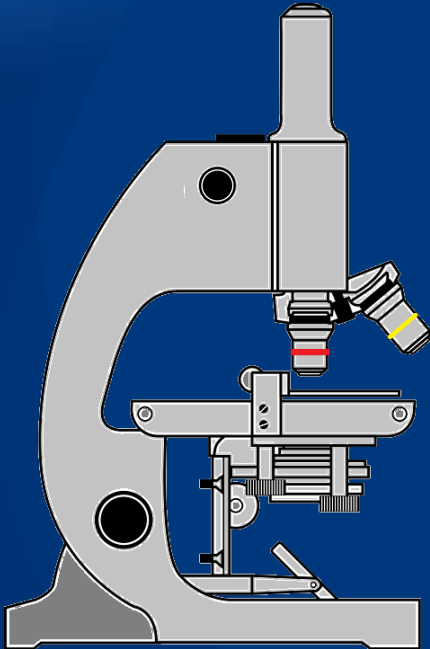
What is a Light Microscope?

- 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~~

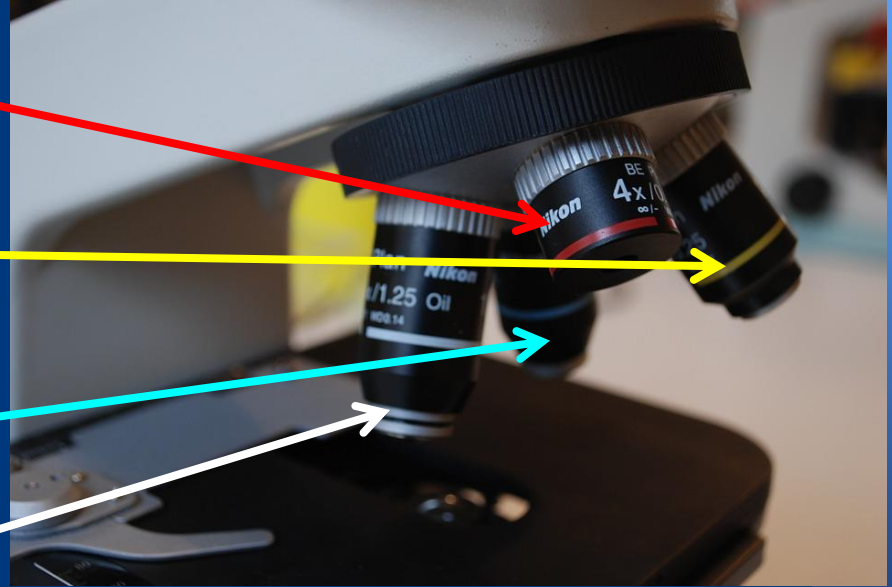
2. **Medium Power**
(Yellow Objective)

100x

3. **High Power**
(Blue Objective)

400x

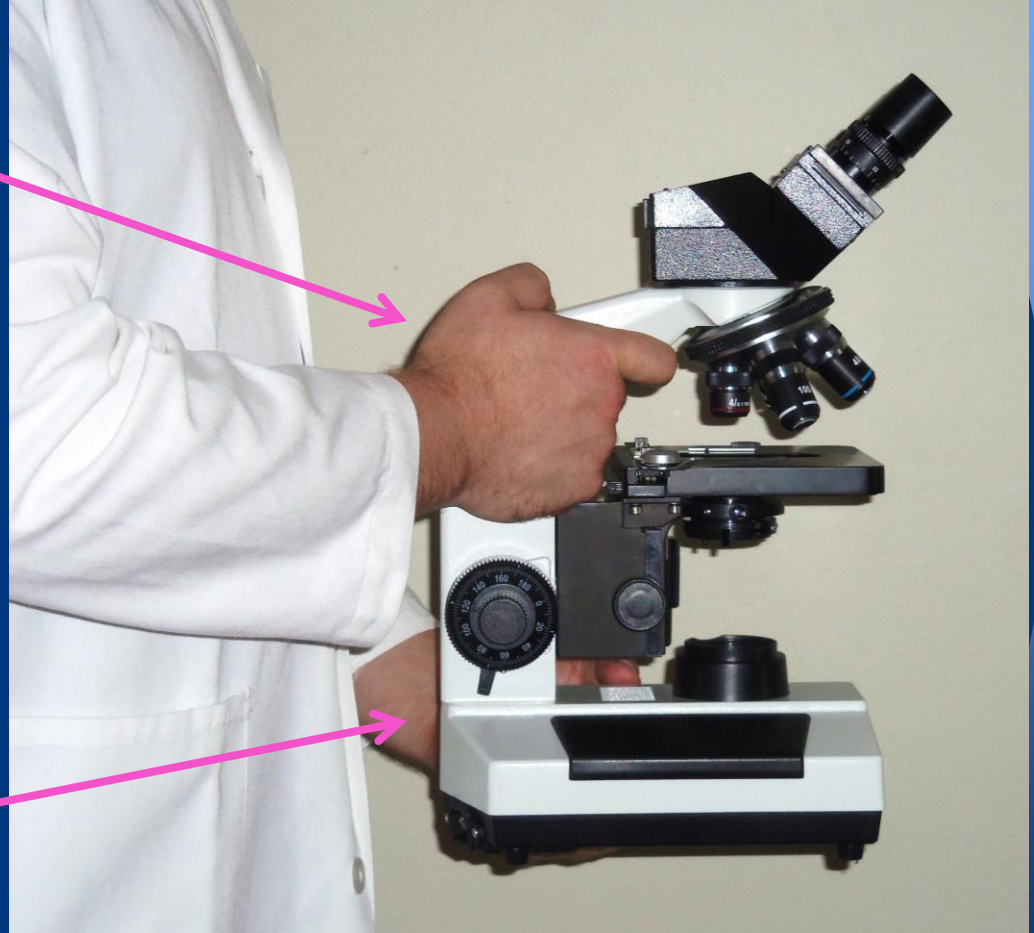
4. **Highest Power**
(White Objective - *Called Oil Immersion* - Only used with oil!)



Use other hand
to support the
arm

How to Carry a Microscope

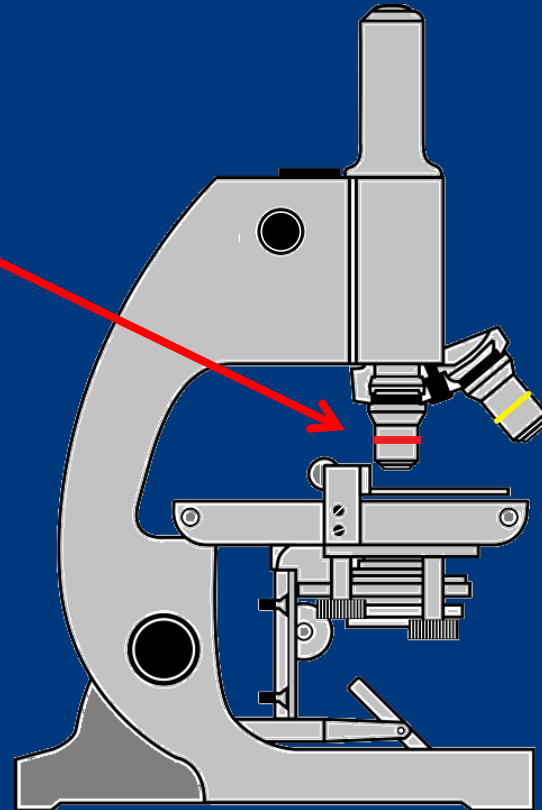
Use one hand to
hold the base



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



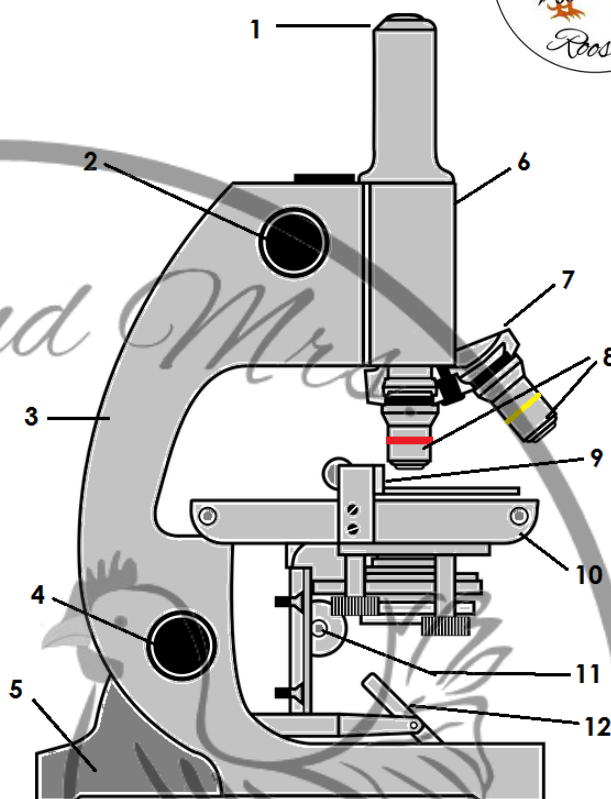
- This product includes **21 more slides** in PowerPoint so the slides are **EDITABLE** and contain **animation**.
 - There are 12 slides at the end of the PowerPoint which include “**Check for Understanding**” questions and their answers.
- **A student guided notes handout is included for this product.** 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 course 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 _____