



# LIGHT MICROSCOPE

RANA ALQUSUMI

# INTRODUCTION TO LIGHT MICROSCOPE:

- Definition.
- Guidelines for use.
- Parts of the light microscope.
- How to use the light microscope.
- Types of the light microscope.

# LIGHT MICROSCOPE

- A light microscope is an optical instrument that uses the visible light to magnified the object (or specimen).

# GUIDELINES FOR USE:



ALWAYS CARRY WITH 2 HANDS  
ONE ON THE ARM AND THE  
OTHER ON THE BASE.



USE LENS PAPER FOR  
CLEANING.



CLEAN AFTER USING  
IMMERSION OIL.



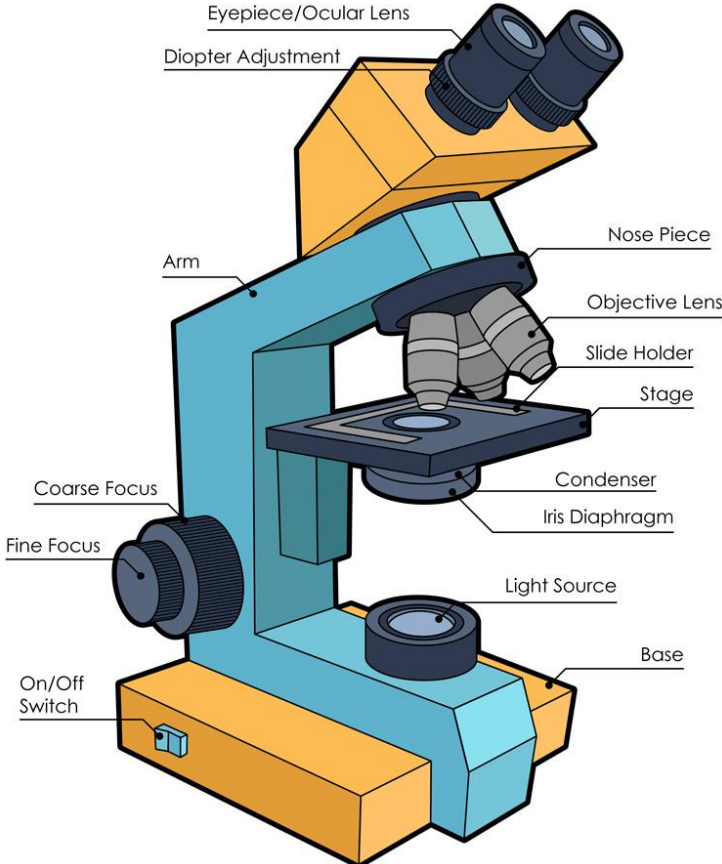
NEVER TOUCH THE LENSES  
WITH YOUR FINGERS.



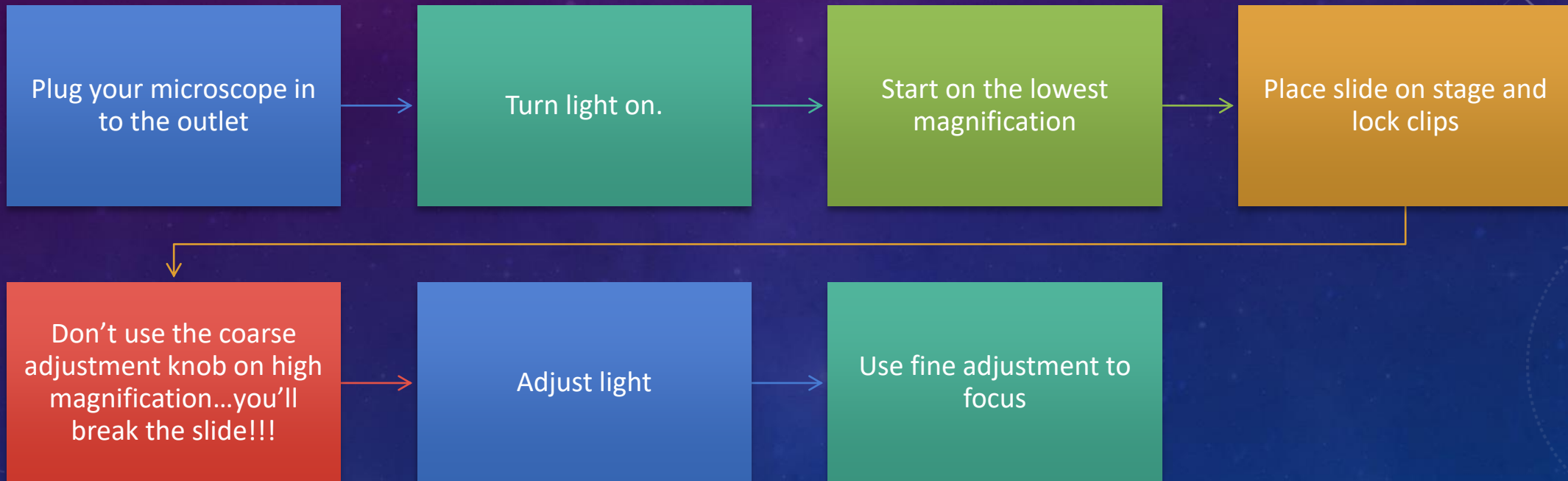
ALWAYS STORE IT COVERED



# Parts of a Microscope



# HOW TO USE THE LIGHT MICROSCOPE:



# TYPES OF LIGHT MICROSCOPE:

| Type                    | Definition   |
|-------------------------|--|
| Bright field microscope | visible light is passed through the sample and used to form an image directly, without any modifications. Slightly more sophisticated forms of light microscopy use optical tricks to enhance contrast, making details of cells and tissues easier to see. |
| fluorescence microscopy | which is used to image samples that fluoresce (absorb one wavelength of light and emit another).   |

# REFERENCES

- Fundamentals of Light Microscopy and Electronic Imaging by Douglas B. Murphy , and Michael W. Davidson.
- <https://www.khanacademy.org/science/high-school-biology/hs-cells/hs-introduction-to-cells/a/microscopy>