

جامعة المستقبل كلية التقنيات الصحية والطبية قسم تقنيات الأشعة فسلجه عملي المحاضرة الأولى

Introduction to the Microscope

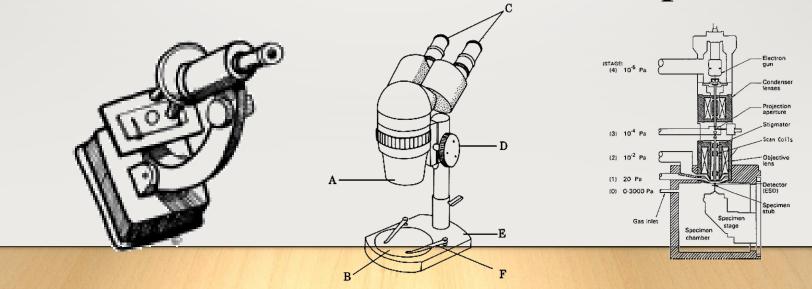
MSc. Ghadeer talib 2023-2024 A microscope is an <u>instrument</u> used to see objects that are too small to be seen by the naked eye.

. Microscopy is the science of investigating small objects and structures using such an instrument

Light microscope is a type of microscope that used to magnified object by using the visible light and lenses system.

Types of Microscopes

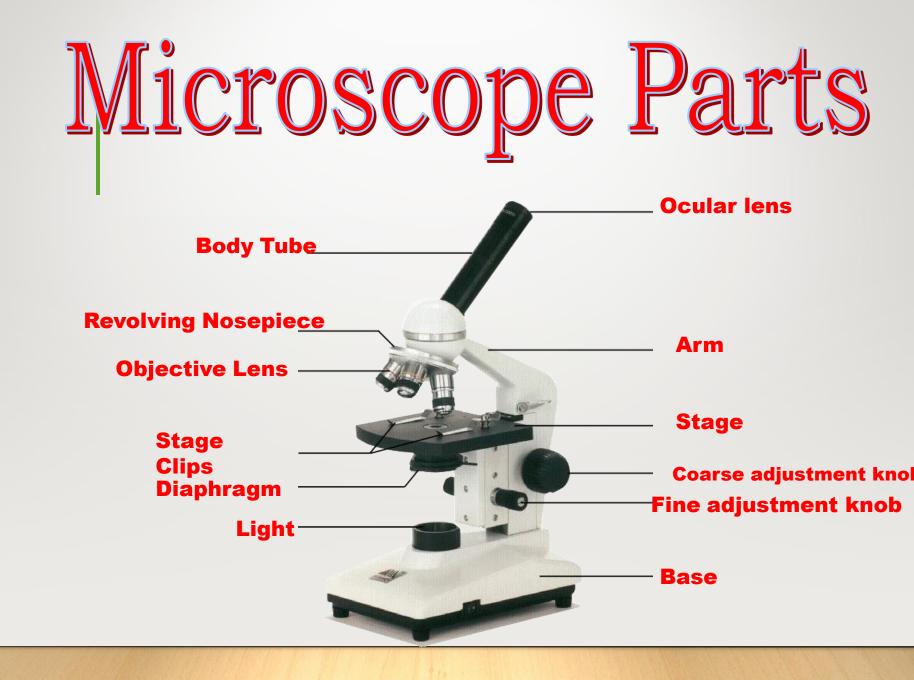
- •Light Microscope
- Dissection Microscope
- •Scanning Electron Microscope (SEM)
- •Transmission Electron Microscope (TEM)



Microscope Care

- Always carry with 2 hands
- Never touch the lenses with your fingers.
- Only use lens paper for cleaning
- Always store covered
- *****Turn the instrument off when it is not in use



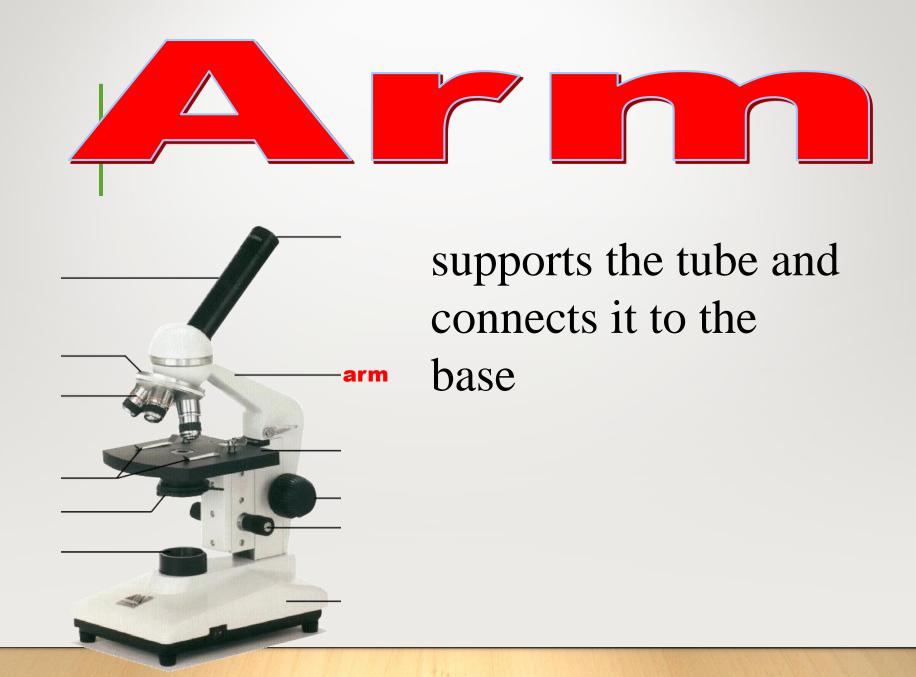




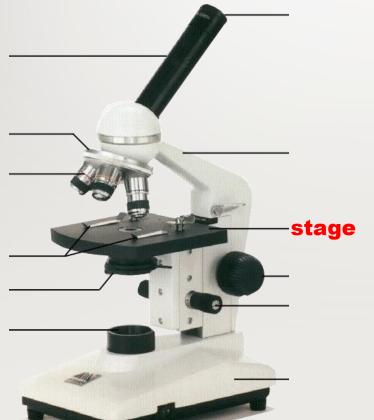
Ocular lence

magnifies; where you look through to see the image of your specimen.

They are usually 10X







the flat platform where you place your slides

coarse adjustment knob

moves stage (or body tube) up and down

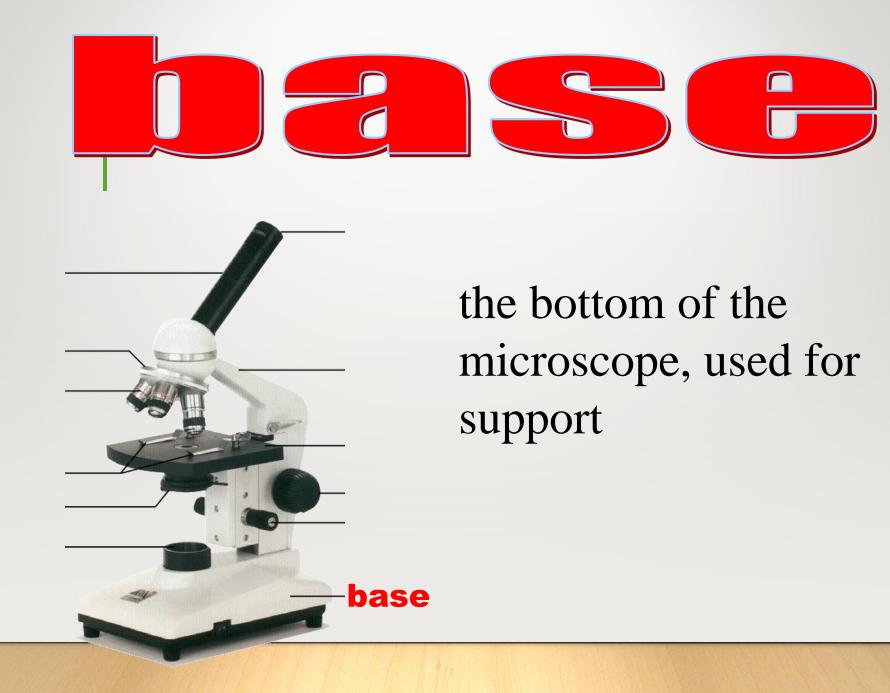
–coarse adjustment knob

fine adjustment knob



small, round knob on the side of the microscope used to fine-tune the focus of your specimen

fine adjustment knob after using the coarse adjustment knob





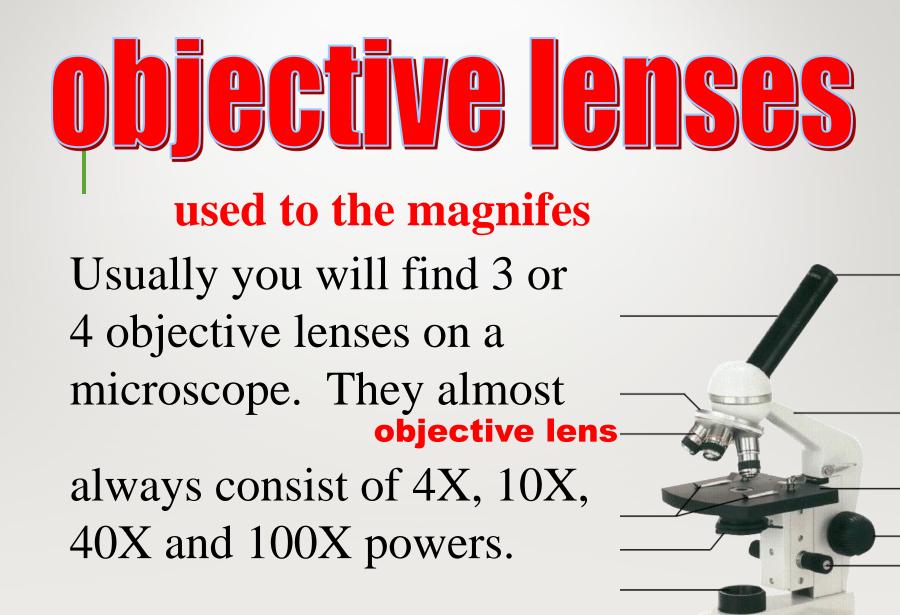
body tube

connects the eyepiece to the objective lenses



the part that holds two or more objective lenses revolving nosepiece

and can be rotated to easily change power





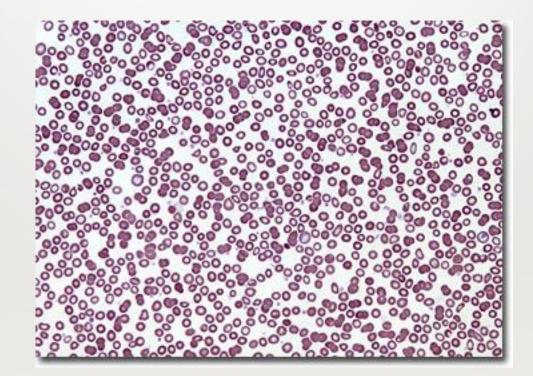
Stage clips hold the slides in place. If your microscope has a mechanical stage, you will be able to move the slide around by turning two knobs. One stage clips moves it left and right, the other moves it up and down.



light

makes the specimen easier to see

Blood Smear under light microscope



Electron microscope

•Dissection Microscope



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