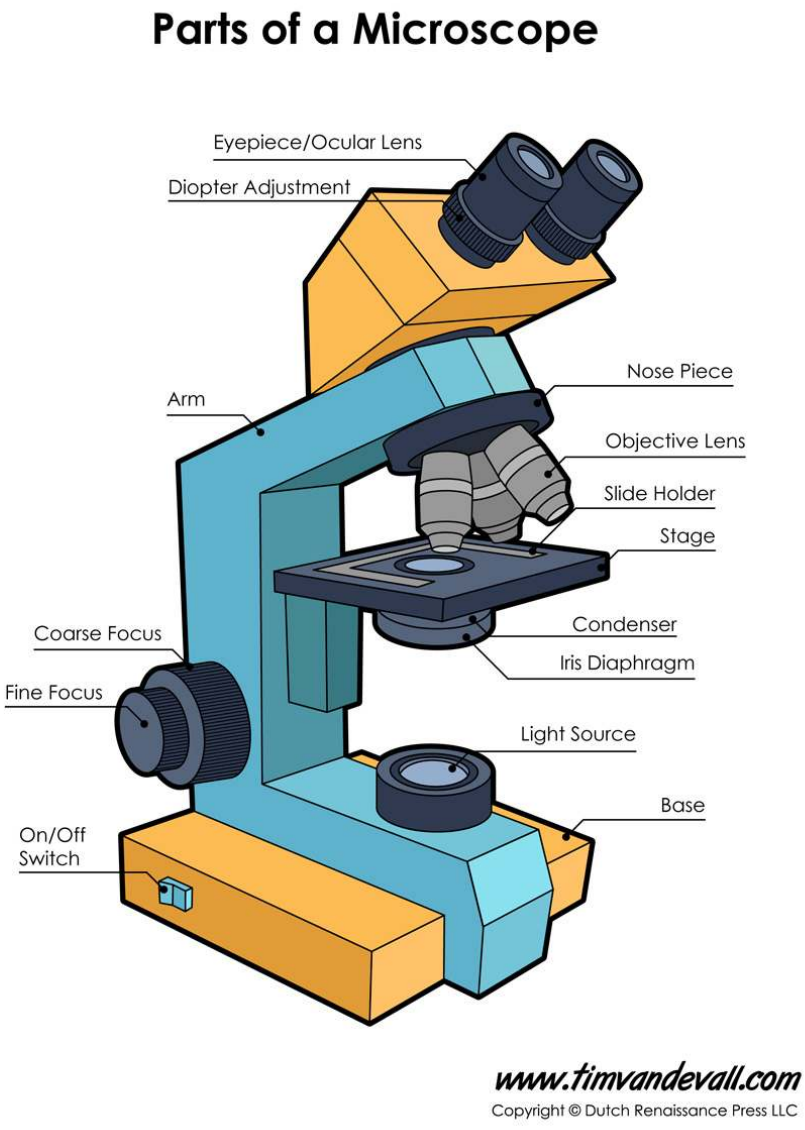
The Microscope

Compound Microscope → most common microscope today
→ means 2 or more lenses



Eyepiece - contains the lens that magnifies

Course Adjustment Knob - moves stage up & down to focus on object / produce clear image

Fine Adjustment Knob - brings object into sharp focus

OBJECTIVE LENSES - PROVIDES DIFFERENT STRENGTHS of MAGNIFICATION COMBINED W/ EYEPIECE

REVOLVING NOSEPIECE - HOLDS THE 3 OBJECTIVE LENSES.

STAGE - SUPPORTS THE SLIDE THAT HOLDS THE OBJECT BEING LOOKED AT.

DIAPHRAGM - diff. SIZED HOLES TO CHANGE AMOUNT of LIGHT PASSING THROUGH OBJECT BEING VIEWED.

LAMP - SUPPLIES the LIGHT for VIEWING.

Microscope Math

EYEPIECE MAGNIFIES SPECIMEN BY 10x POWER

THREE OBJECTIVES LENSES W/ 10x, 40x & 100x POWER

TOTAL MAGNIFICATION = MULTIPLY THE 2 POWERS.

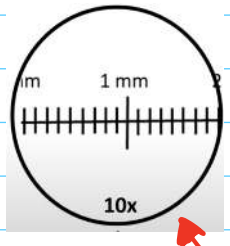
EX: (10x)(40x) = 400x TOTAL MAGNIFICATION



FIELD of VIEW - THE AREA YOU CAN SEE

F.O.V. = DIAMETER of FOV (mm) / TOTAL MAGNIFICATION

= 2 mm / 10x



FOV = 0.2