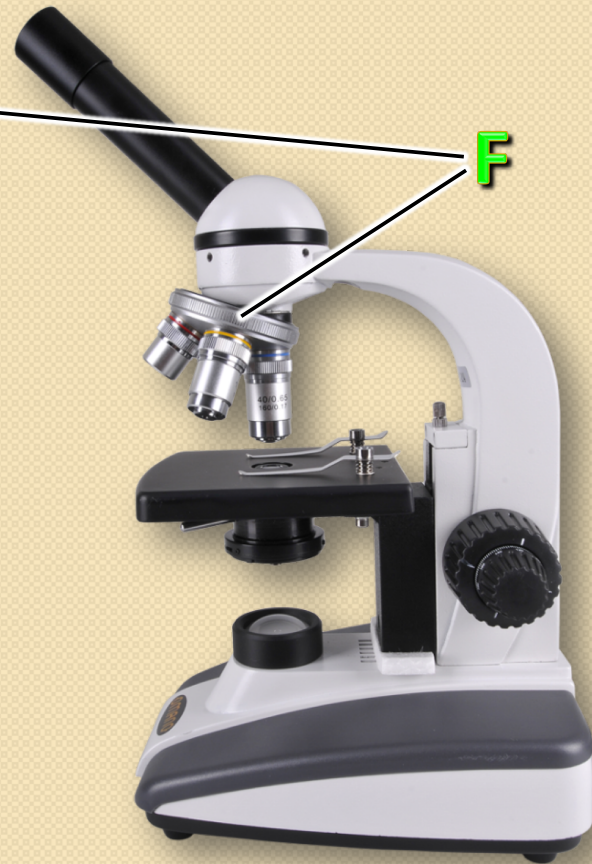


PARTS OF THE COMPOUND LIGHT MICROSCOPE

Revolving/Rotating Nose Piece



- The objective lenses are attached to it.
- Rotating the nose piece allows you to switch between the different lenses.



PARTS OF THE COMPOUND LIGHT MICROSCOPE

Objective Lenses



Low (scanning)

4 X

Medium 10 X

High 40 X

G

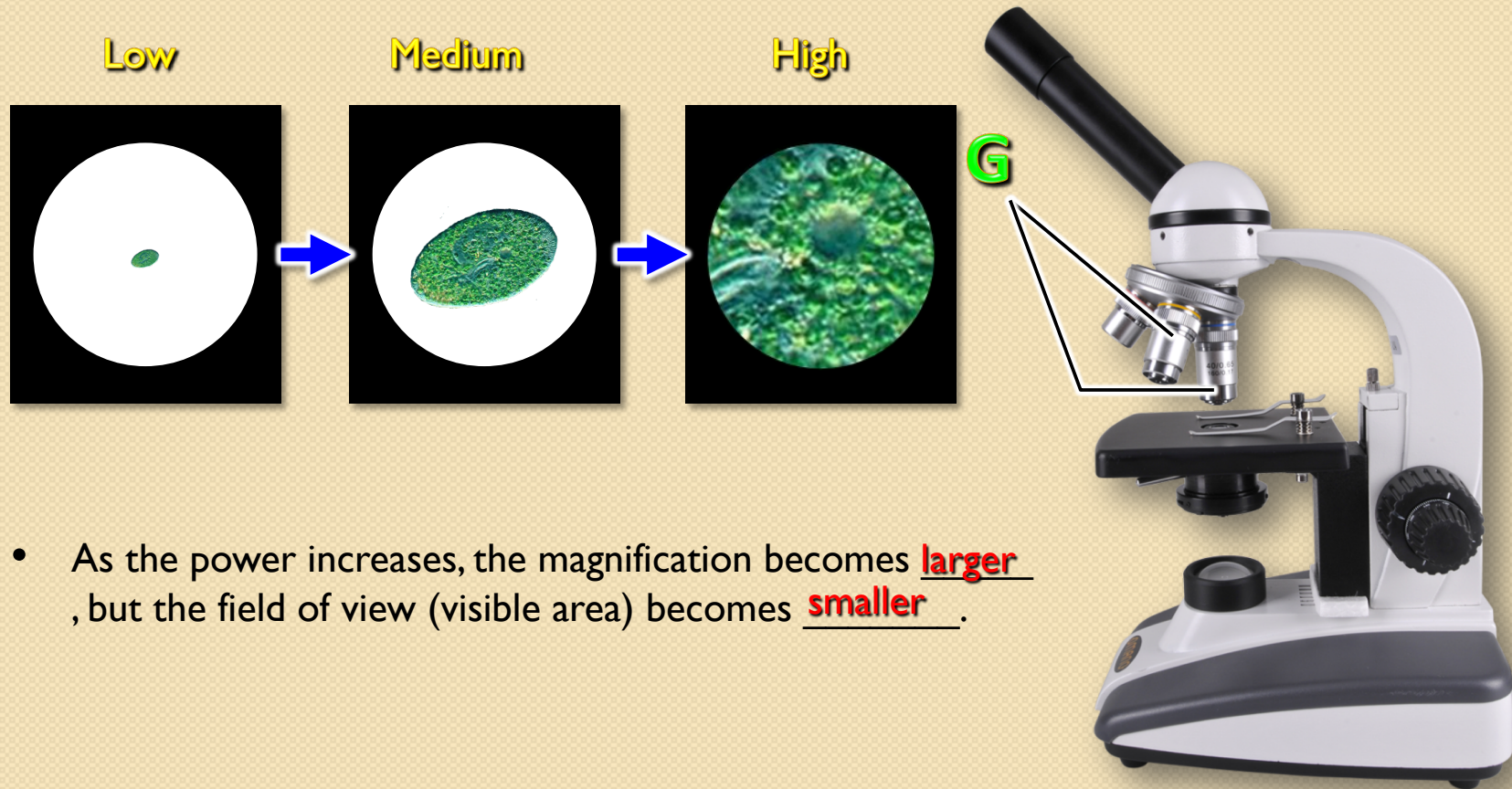


- These lenses further magnify the image of the specimen.
- The magnifications are usually 4 X , 10 X and 40 X .
- There are usually 3 lenses but some have 4 lenses.



PARTS OF THE COMPOUND LIGHT MICROSCOPE

Objective Lenses

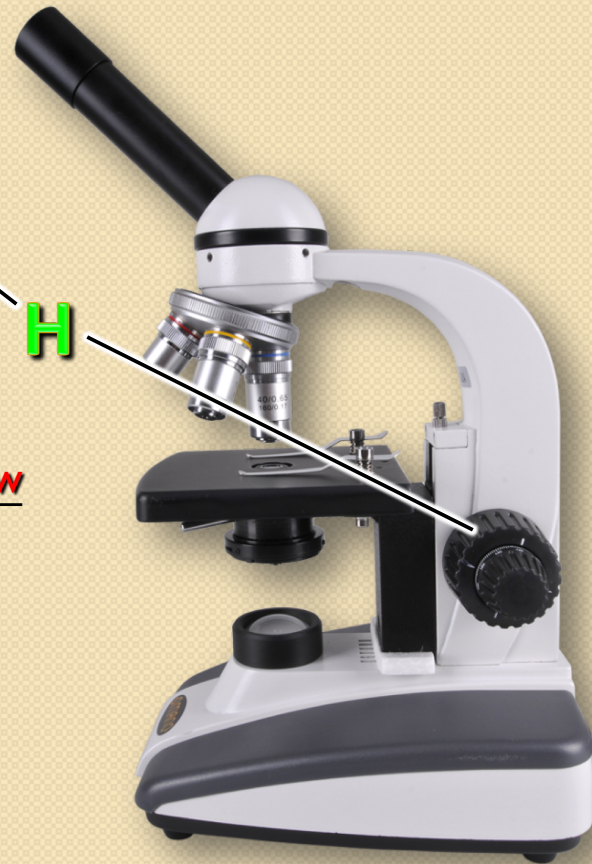


PARTS OF THE COMPOUND LIGHT MICROSCOPE

Coarse Adjustment Knob

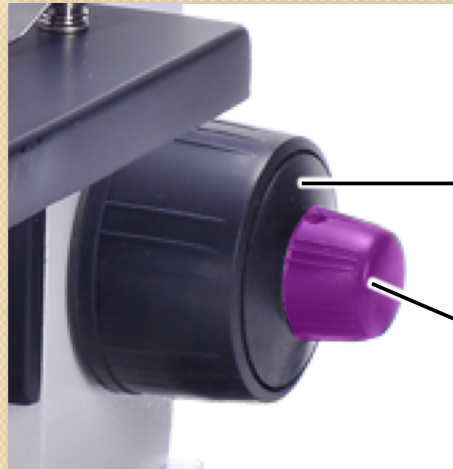


- The first knob you should use, and always under low power. Never use it in high power.

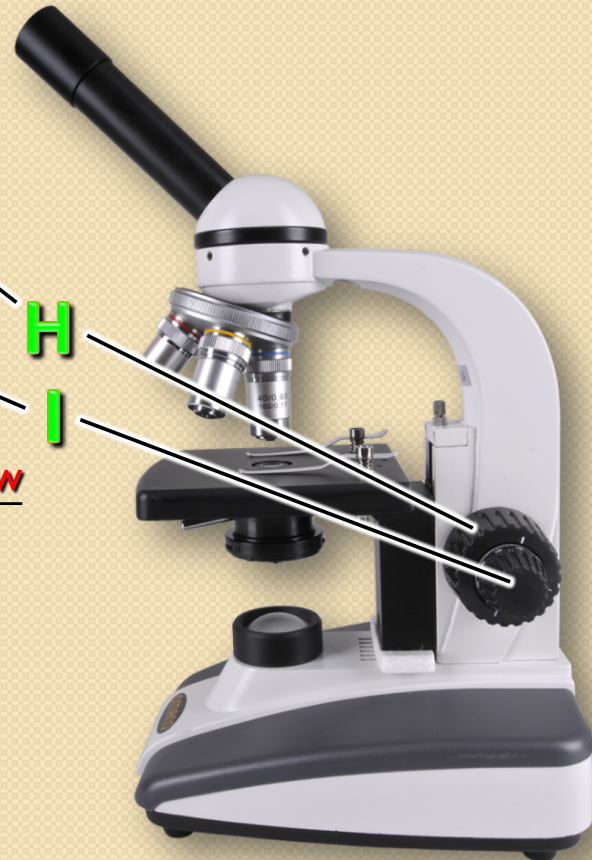


PARTS OF THE COMPOUND LIGHT MICROSCOPE

Fine Adjustment Knob

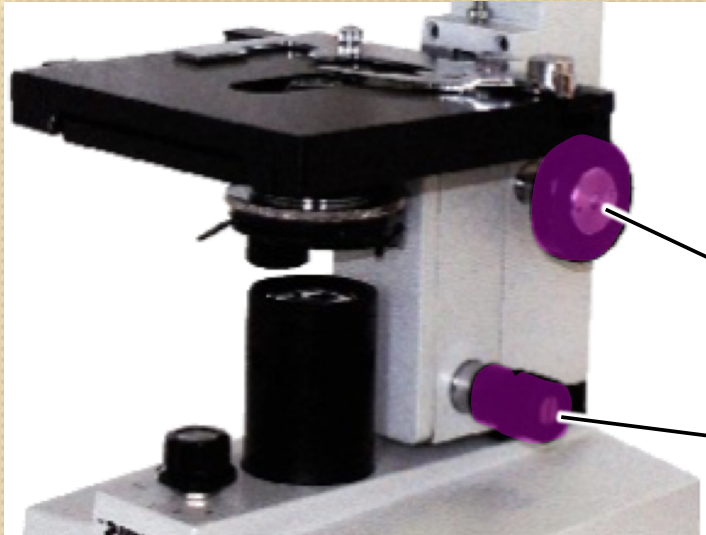


- The first knob you should use, and always under low power. Never use it in high power.
- The second knob you should use under higher power for exact focusing.
- Both knobs move the stage up and down to help put the specimen in focus.

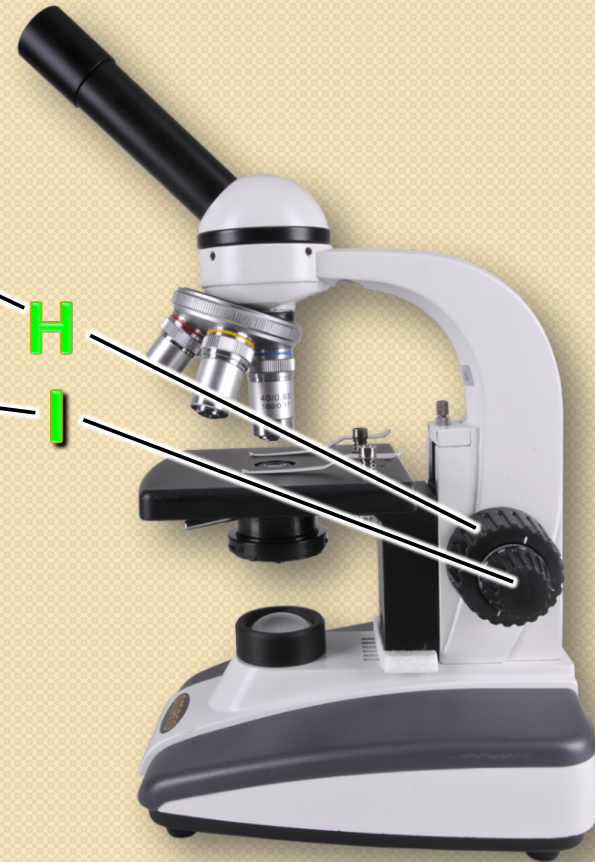


PARTS OF THE COMPOUND LIGHT MICROSCOPE

Fine Adjustment Knob



- Some microscopes have the two knobs located one on top of the other.
- The smaller one on the bottom is always the fine adjustment knob.



PARTS OF THE COMPOUND LIGHT MICROSCOPE

Stage

AND

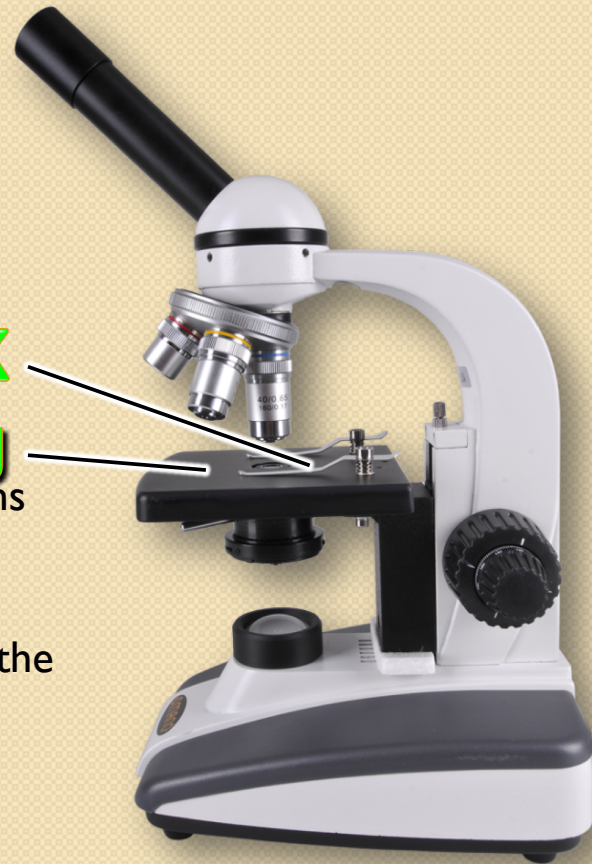
Stage Clips



K

J

- The stage is where you place the slide which contains the specimen.
- It contains a hole that allows light to pass through the stage and onto the specimen.
- The stage clips secure the slide on the stage.

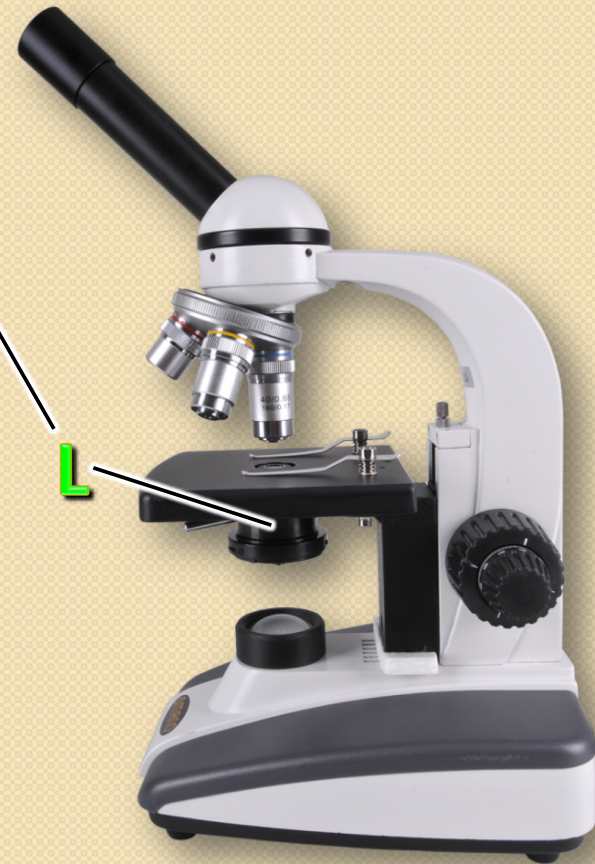


PARTS OF THE COMPOUND LIGHT MICROSCOPE

Condenser Lens

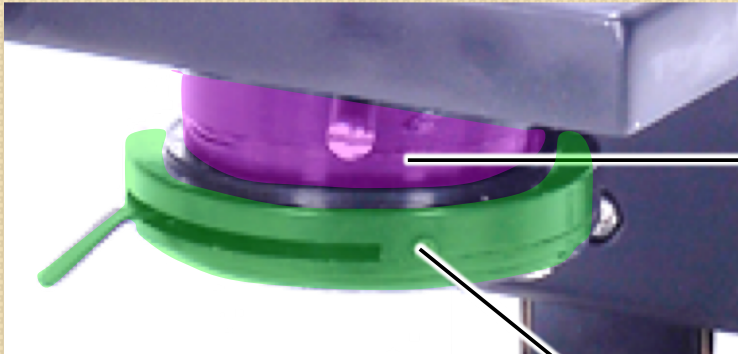


- The lens under the stage that focuses light from the illuminator through to the hole in the stage.

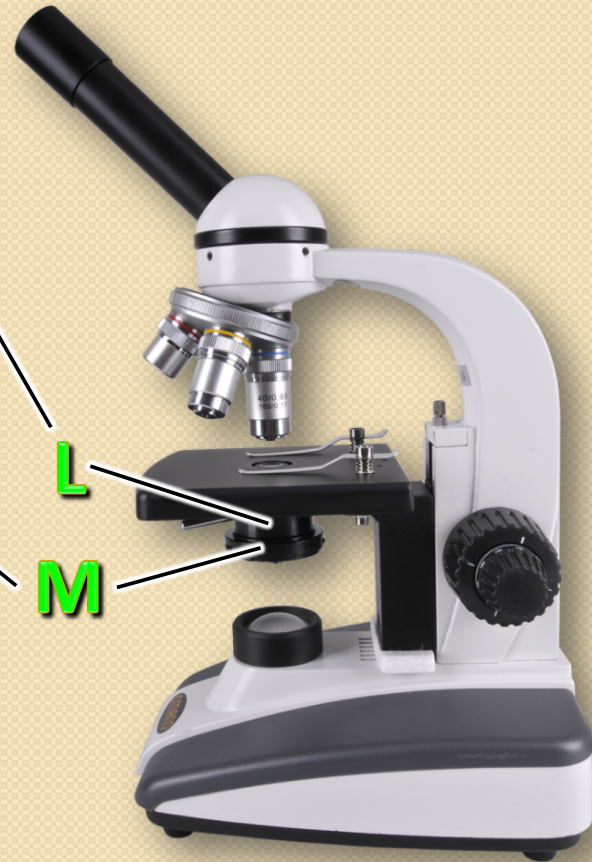


PARTS OF THE COMPOUND LIGHT MICROSCOPE

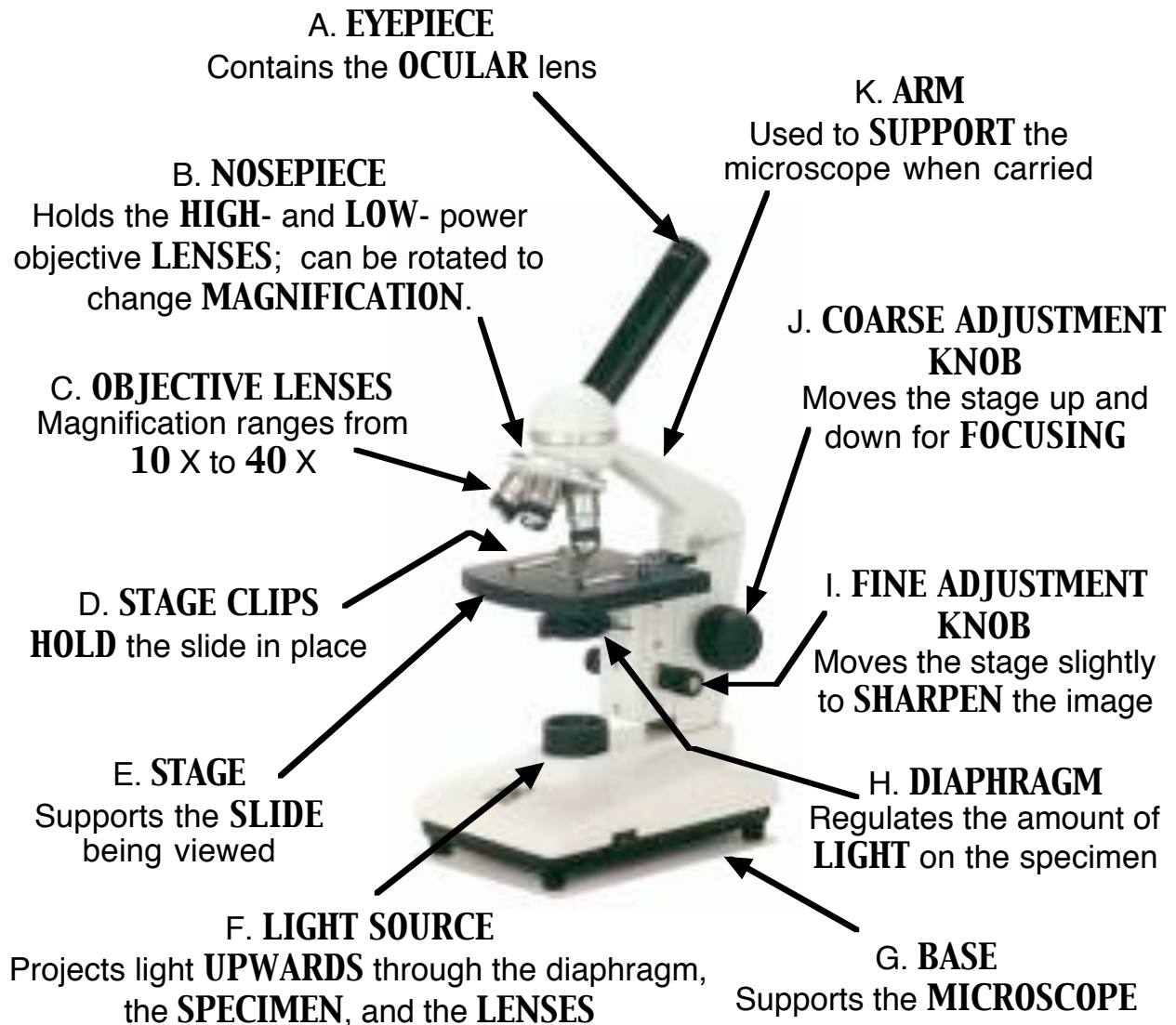
Diaphragm



- The lens under the stage that focuses light from the illuminator through to the hole in the stage.
- It contains a dial that rotates to adjust the amount of light that reaches the specimen.

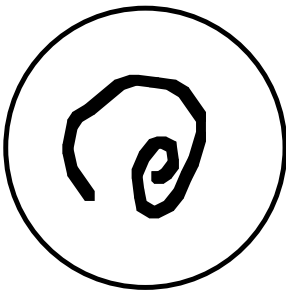


PARTS OF THE LIGHT MICROSCOPE

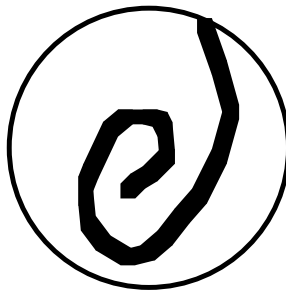


What happens as the power of magnification increases?

Power = $10 \times 4 = 40$



Power = $10 \times 10 = 100$



Power = $10 \times 40 = 400$

