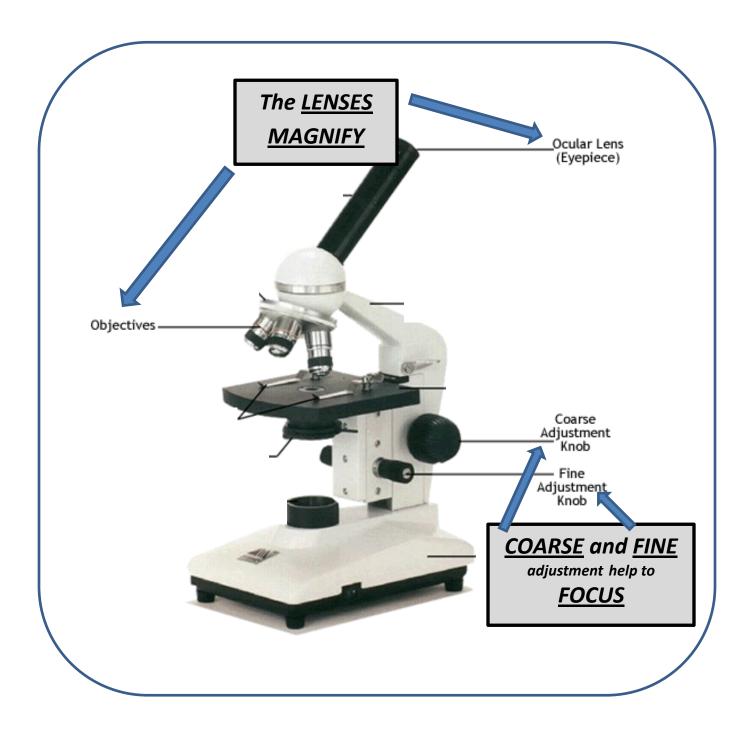
# **<u>REVIEW</u>**: Tools of the Biologist and Microscope Techniques

### Compound Light Microscope

- ✓ <u>TWO Lenses</u> (Ocular and Objective)
- ✓ Image is <u>REVERSED</u>
- ✓ <u>1,000x</u> magnification

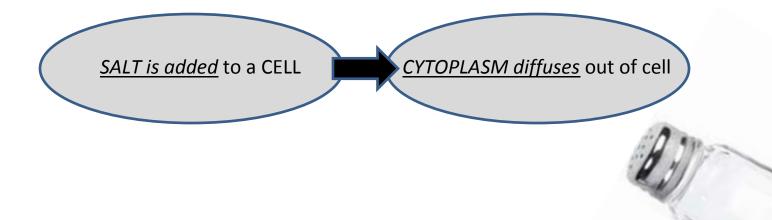


When focusing.....

START in LOW POWER and use COARSE adjustment.

<u>Switch</u> to HIGH POWER and use FINE adjustment.





**REMEMBER:** Where there is SALT.....WATER will FOLLOW!

# **Electron Microscopes**

Transmission Electron Microscope (1930's)

Beam of <u>electrons shines THROUGH</u> something

ITEM appears FLAT



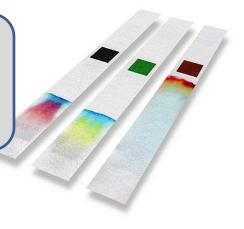
# Scanning Electron Microscope (1950's) ▶ Beam of <u>electrons shines ACROSS SURFACE</u> of something ▶ 3-D Image

# <u>Ultracentrifuge</u>

- SEPARATES items based on DENSITY
- MORE DENSE = <u>SINK to BOTTOM</u>

Paper Chromatography

SEPARATES PIGMENTS
 used to <u>FIND RELATION</u>



# **RULE: PIGMENTS must be ABOVE the SOLVENT**

