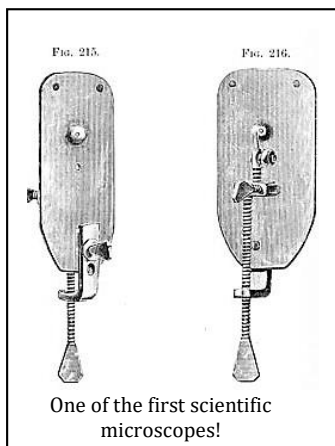


Essential Question: What are the characteristics & structures of living things?

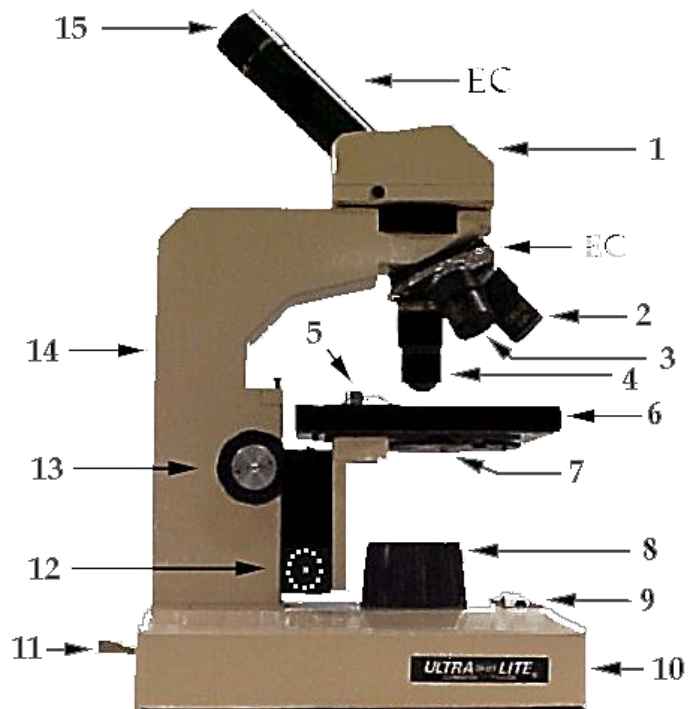
Activity 3: Microscopes Basics: Earn a permit to drive the compound light microscope.

Purpose: I can properly use and maintain a Compound Light Microscope AND tell the names & functions of its parts.

Background: The invention of the Light Microscope 400 years ago opened up a new world to science. Ever since, people new to the field have continually been amazed by the complexity of life. Here's your chance to enter this world of excitement.



INSTRUCTIONS:
Complete the data table as we learn the parts of the compound light microscope.



Data Table 1 – Structure and Function of parts of the Light Microscope		
Number	Structure (What it is)	Function (What it does)
1		
2		
3		
4		
5		
6		
7		
8		
9		
10		
11		
12		
13		
14		
15		

Just who created the microscope is not easy to identify. Evidence points to the first compound microscope appearing in the [Netherlands](#) by 1620, with the likely inventor being [Cornelis Drebbel](#), who also developed the first submarine.

Student Review: 1-Below Standard, 2-Approaching Standard, 3-Standard, 4-Above Standard
Use the scale to evaluate completeness & correctness of the job. Put score, Initial & date in boxes.

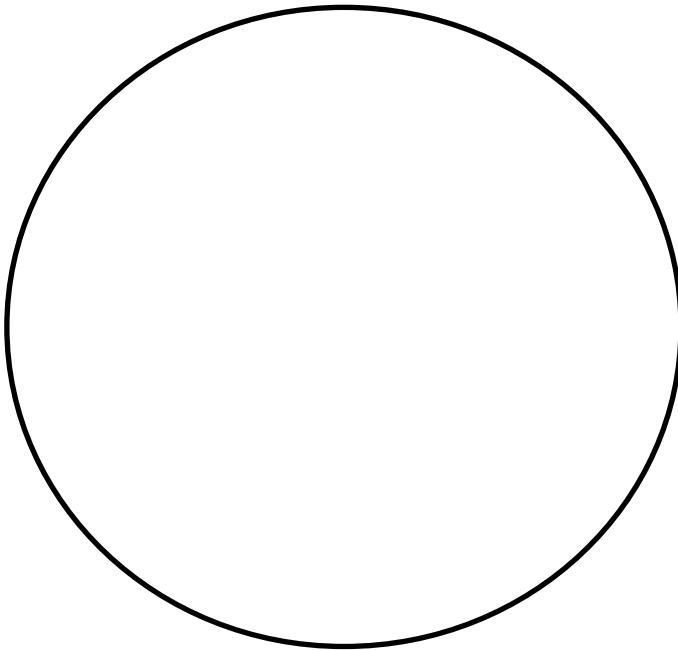
Score

Initial/Date

Purpose: I can *create & properly label* accurate Micro Figures of required plant & animal samples.

Introduction to cells. Watch this [Vclip](https://www.youtube.com/watch?v=gFuEo2ccTPA&list=PLISBHWJXpn2bmlJfIshKclHpBPcov24O&index=10) during this activity.

Micro Figure 1 Instructions: Please follow the procedures given to you by your instructor to focus, draw, color and label each micro figure. **Double check to insure you use proper labeling technique.**



Micro Figure 1 = Hydra

Magnification = _____ X

Labels to include:

- Cell Membrane
- Arms
- Holdfast

Use Class notes or check online to ensure you label properly.

Micro Figure 2 = Allium root tip

Magnification = _____ X

Labels to include =

- Cell wall
- Cell membrane
- Cytoplasm
- Nucleus
- Chromosomes

Use Class notes or check online to ensure you label properly.

