
Lesson Plan

1. Daily learning objectives

- Be able to name the parts and functions of a light microscope
- Display proper use of the microscope and safety protocols during the lab

2. Microscopes

- Introduction video: <https://www.youtube.com/watch?v=TJyOQmdwHhE>
- Parts and functions of the microscope
- How to use a microscope properly (demonstration)
- Lab safety review

3. Parts and functions worksheet review/quiz

4. Animal Liver Cell (or Planarian Head) Activity

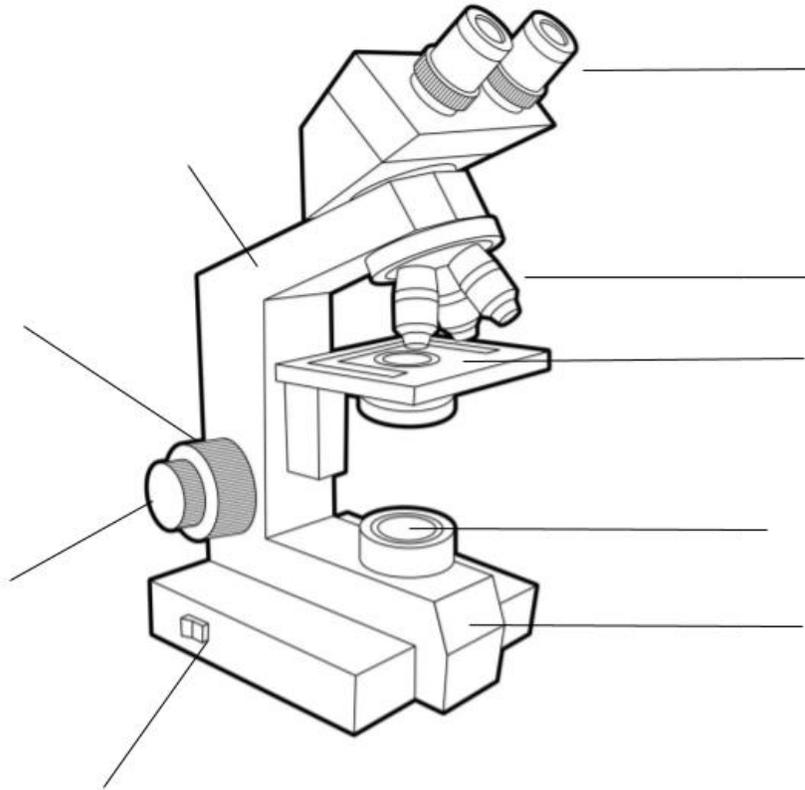
- Introduce the lab
- if drawing the Planaria, show a video of Planaria regeneration to peak interest in students

5. Rules for scientific drawing:

- Use a sharp pencil.
 - Draw ONLY what you see.
 - Do not shade or colour.
 - Use stippling to show darker areas.
 - Title your drawing; the title should be centered and printed in lower case.
 - Use a ruler to draw label lines.
 - Print all labels horizontally.
 - If possible, place all labels at the right-hand side of the drawing.
 - Do not cross label lines
 - Include magnification
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The Microscope

Name: _____



3 rules when using the microscope:

1. _____
2. _____
3. _____

The Animal Liver Cell

Name: _____

Procedure:

1. Get an animal liver cell slide
5. Use the SCANNING lens and the course focus. You probably will not see the cells at this power.
6. Switch to LOW POWER. Cells should be visible, but they will be small and look like reddish blobs.
7. Once you think you have located a cell, switch to HIGH POWER and focus using the fine adjustment knob. (Remember, do NOT use the coarse adjustment knob at this point.)

Observations:

Make a sketch of the cell at low or high power. Indicate which power you chose and label any organelles.

