

Cheek vs. Elodea Lab Report Guide

Student:

Class Period

Lab Group Members:

The Lab Question: Are Animal (Human) cells different in any noticeable ways from Plant (Elodea) cells?

Our Hypothesis: Plant and Animal Cells will have noticeable structural differences.

Procedures

Pick up the following materials:

- 1 wood stirring stick
- 1 slide & 1 cover slip
- 1 dropper bottle of methylene blue
- 1 small elodea leaf
- 2 - 3 inches of paper towel

Cheek Cells

1. Place 1 drop of methylene blue (stain) and 1 drop of water on the center of your slide.

2. Gently scrape the inside of your cheek with a wood stirrer.

3. Swirl the wood stirrer in the water / stain drops to mix the collected cells from the stirrer.

4. Cover the drops with a cover slip, lowering it on an angle.

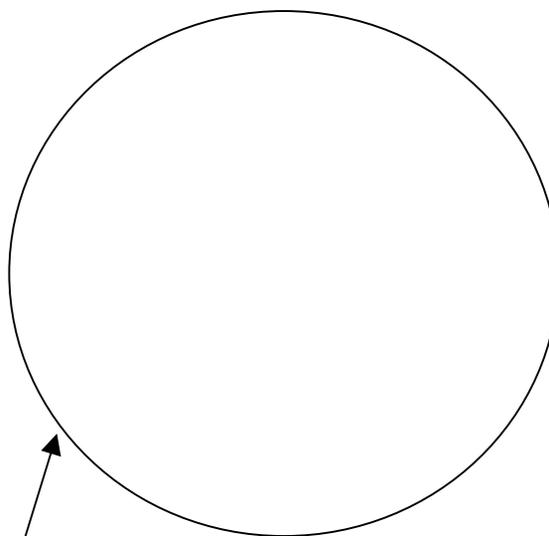
5. Observe the cells on medium (yellow lens) and then high (blue/green lens) power.

6. Draw 1 to 3 cheek cells as seen on high power.

7. Remove the cover slip, and rinse the slide and cover slip off at a sink.

8. Dry the slide and cover slip so they are ready for the next part of the lab.

Drawings

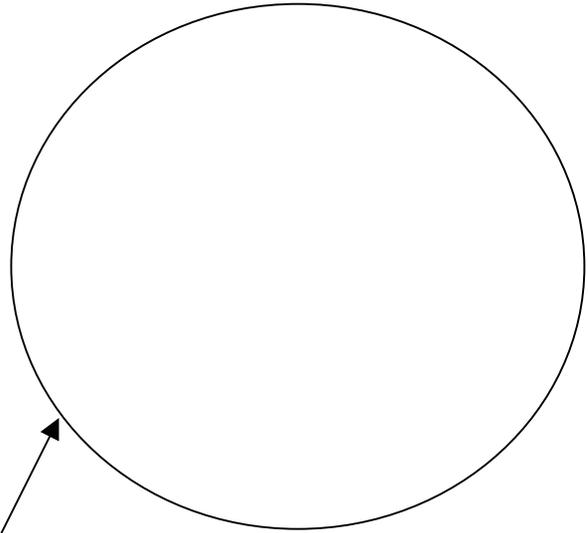


Cheek Cells of _____

Describe the appearance of your cheek cell.

Elodea Cells

1. Place 1 drop of methylene blue (stain) and 1 drop of water on the center of your slide.
2. Pull 1 small leaf off of an Elodea plant with a forceps (tweezers).
3. Place the leaf in the water / stain drops with the forceps.
4. Cover the drops with a cover slip, lowering it on an angle.
5. Observe the cells on medium (yellow lens) and then high (blue/green lens) power.
6. Draw 1 to 3 plant cells as seen on high power.
7. Remove the cover slip, and rinse the slide and cover slip off at a sink.
8. Dry the slide and cover slip so they are ready for the next part of the lab.



Elodea Cells

Describe the appearance of your cheek cell.