**Algae Osmosis Lab Name:\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Purpose:** To draw and see the affect salt water has on algae cells.

**Hypothesis:** [2 marks]

**Procedure**

* Prepare a microscope slide with algae on it. Ensure that the algae is not clumped together.
* Find the cells and **draw** 1 of them (try to focus on high power if possible)
  + **Label the cell wall, cytoplasm, and chloroplast**
* Add a 2 drops of salt water and redraw the algae cell
  + **Label the cell wall, cytoplasm, cell membrane, and chloroplast**
* Determine total magnification
* *\*\*Follow* ***all rules*** *for a biological diagram\*\**
* Clean up your slide and work area, have a seat and answer the analysis questions provided based on your observations.

**Biological Diagram Criteria**

1. *Pencil used for drawing and writing (no colours)*
2. *Specific title at top of page*
3. *Labels on right side*
4. *Label lines not crossed*
5. *Ruler used for label lines*
6. *Specimen lines complete not sloppy*
7. *Stippling used, no shading*
8. *Specimen large enough*

*10. Total magnification recorded below diagram* (ocular lens x objective lens)

**Analysis (answer questions clearly and in full sentences)**

1. Describe the structural appearance, **and any organelles**, of the cell before adding salt water. [2 marks]
2. Describe the appearance, **and any organelles**, of the cell after adding salt water. What **differences** do you see? [2 marks]
3. Explain clearly what happened to the algae cells and why. [3 marks]

**Conclusion**: [2 marks] *what did you learn? Clearly explain what happened and why. Should answer the purpose of the lab*