

I	C
----------	----------

Names: _____

- 01 05
- 02 06
- 03 07
- 04 08

Date of lab: _____ Due date: _____

SNC1D

Lab Design: Factors Affecting Plant Growth

Objective

In this lab, you will be trying to figure out how certain factors can affect the growth of plants. You will be working in groups of 3 students. Each group will design an experiment to determine the effects of one factor on plant growth.

Available Materials

- | | |
|--|---|
| <ul style="list-style-type: none"> • Soil • Sand • Seeds • Tap water | <ul style="list-style-type: none"> • Acids of varying strength • Bases of varying strength • Plastic bottles • Masking tape |
|--|---|

Brainstorm:

Possible Independent Variables (What might affect plant growth?)	Possible Dependent Variables (What are different ways you can measure plant growth?)

Question:

What is the effect of _____ (choose 1 independent variable) on the _____ (choose 1 dependent variable).

Hypothesis/Prediction:

An increase of _____ (your chosen independent variable) will cause an [increase/decrease/no change] on _____ (your chosen dependent variable).

Chosen Independent Variable	Chosen Dependent Variable	All Controlled Variables

Procedure

Draw a flowchart to show your procedure in the space below. Make sure you account for all the control variables. Label any diagrams and BE SPECIFIC!

Materials list

List all the materials that your procedure requires.

Safety Procedures:

List all the safety hazards that may be relevant in this lab.

