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Names: _____

Date: _____

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SNC1D1

Lab Design Assignment

In your group, pick one of the possible experiments on the attached handout (**except for the paper helicopters**) and design a lab to test the effects of changing one variable on another. Fill in the following boxes.

Experiment chosen: _____

<p>Possible Independent Variables</p>	<p>Possible Dependent Variables</p>
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Choose one independent variable and one dependent variable.

<p style="text-align: center;">Prediction</p> <p>A (forced) increase in _____ will _____ (inc/dec/have no effect on) the _____</p>	<p style="text-align: center;">Hypothesis</p> <p>because: _____</p>
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<p>Control Variables</p>

Procedure

- write the procedure as a series of steps
- make sure your experiment will test the prediction
- make sure you have many different values for the possible independent variable
- use measurements of all variables, wherever possible
- what values will you use for your control variables? Ensure other possible cause variables do not alter results.
- make sure to increment your independent variable in steady amounts
- make sure you have several copies of each value being tested
- repeat each measurement at least once and report the average
- make qualitative descriptions of possible independent and dependent variables

Data

Prepare a data table and graph for the data you will be collecting.