**Projectile Motion Experimental Design Template**

When designing a controlled experiment keep the following in mind:

* You can only test 1 variable at a time.
* If more than one variable is to be tested, you must conduct separate experiments for each
* You should collect at least 5 or more different data points for any tested variable
* If you can, the min, max, and several values of an independent variable should be tested to get a clear picture of the trends in data
* Ideally you would repeat

1. **Research Problem/Question:**
2. **Experiment Design:**
   1. Independent Variable (the variable you are testing/manipulating)
   2. Dependent Variable (the variable that responds to a change in the independent variable)
   3. Constants- the variables that must remain constant while you are testing this independent variable. What variables and their values will you use as constants?

(repeat step 2 above for any other independent variables you will test)

1. **Methods**: a brief description of how you will be conducting your experiment.
2. **Data:** make a data table(s) for all your data collection here (can use excel, then copy and paste). It should contain all the values you will test for each independent variable.
3. **Submit this document to the assignment on Edgenuity.** DO NOT do step 2 of the project until you have gotten feedback from your instructor.