Science Fair Experimental Design

QISS 2014

Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. **Problem/Question**: What are you trying to find out or determine?
2. **Hypothesis**: A suitable answer to your question. Use your background information to develop your hypothesis.
3. **Identify your variables:**
   1. Independent/manipulated variable (what are you testing):
   2. Dependent/responding variable (what are you measuring):
   3. Control variable (what are you comparing your independent variable to):
   4. Constants
4. Write a *detailed* **procedure** for testing your problem.
5. Create a **COMPLETE** list of materials needed to perform your experiment.
6. Create a complete data table for data collection during the experimentation phase.
7. What is the **question** you are going to try and answer with your experiment? Or for engineering projects, what **need** are you trying to address?