

Notes on the Scientific Method

1. **Problem** - written in question form (must be testable); test only one variable at a time.
2. **Research** - background information about your experiment from another source; about one to two paragraphs is sufficient; written in paragraph form.
3. **Hypothesis** - what you predict will happen; must be written as an "If . . . , then . . . " statement before the experiment is conducted.
4. **Materials** - *List-list and number all materials in list form; include amounts.*
5. **Procedure** - *list and number all steps in list form; must include details*
6. **Observations** - Data-charts, tables, graphs, pictures; must include at least 2 different forms. Qualitative & Quantitative.
7. **Conclusion** - longest portion of the write-up; must be written in paragraph form.
 - A. Tell if your hypothesis was correct or incorrect, and explain all of your data/results. If your hypothesis was incorrect, discuss what might have caused it to be so.
 - B. List at least two extensions. Explain what you could have done differently. (Possibly a different variable to test)
 - C. Explain at least two concepts you learned from conducting your experiment.