**Scientific Method Notes**

* Observation – **using the senses and devices to get information**
* Hypothesis – **testable prediction based on your observations**
* Experiment – **step by step process for testing the hypothesis**
  + Independent Variable – **variable under your control, what you are testing**
  + Dependent Variable – **is affected when you change the independent variable.**
  + Controls – **stay constant so they do not affect your data**
    - Control Group – **group that you keep under normal conditions as a comparison.**
* Data – **information gathered from the experiment**
  + Quantitative Data – **measurements, numbers + units**
  + Qualitative Data - **descriptions**
* Conclusion – **statement of what happened during the experiments and the analysis. Relates back to the hypothesis and whether or not it was proven by the data and analysis**
  + Theory – **explains why something occurs**
  + Law – **explains what is happening**