Vocab 2-7, 11-13 and 15

Steps of the Scientific Method

1). Observation: Describing/Learning about an object

2 Types:

1). Qualitative: uses the 5 senses

2). Quantitative: Uses measurements and numbers

2).Inference: Adding an opinion o0r prior knowledge to an observation to try and explain what is happening

3). Hypothesis: An if/then statement that can be tested

4). Experiment: The process of testing your hypothesis

3 Variables:

1). Manipulated: Purposefully changed; only one at a time

2). Responding: Result of the change

3). Control: Stays Constant/Unchanged throughout the experiment

5). Data Collection

6). Data Analysis: What happened?

7). Conclusion: Was your hypothesis supported or not?

8). Communicating/Sharing Results: Telling other about your ideas for credit, comparison, and accuracy checking.