

Scientific Process

1. **Posing Questions** - a question or problem answered by making observations and collecting evidence
2. **Develop a Hypothesis** - answers to the problem or question. "If _____ then _____."
3. **Design an Experiment** - Test the hypothesis.
Independent variable is the one that you change.
Dependent variable are the ones that are caused. "It depends."
Control group - the group that is not changed and is compared to the dependent variable.
4. **Collect and Interpret** - collect data and create tables and graphs. Qualitative and quantitative measurements.
5. **Conclusion** - Connect the data to the hypothesis. Was it supported or not? Write a summary of what you learned from the data.
6. **Communicate** - Create a lab report to communicate the results of your experiment. Describe connections between procedures and results.