Title _____

What experimental question is being asked?

- Purpose of why you are doing the experiment stated as a **question**
- Problem that will be investigated or experimented

Claim **"I claim that ... because..."**

- Statement or conclusion that answers the question

Experimental Design

Control Variable
*Variable not changed
*Held constant
*Environment in which experiment taking place

Independent Variable
* Variable set by experimenter
* Recorded on **X** axis of graph

Dependent Variable
* Variable being measured
* Recorded on Y axis of graph
* Test only one/experiment

Evidence to Support Claim

- Measurable information (data) that supports the claim
- Includes experimental data in the form of well-labeled tables, graphs, drawings and other observations
- Evidence must directly apply to the current problem (relevant)
- Evidence should rely on multiple pieces of evidence (sufficient)

Reasoning

- A justification that links the claim to the evidence
- Interpret the evidence using your own thoughts.
- State whether or not the data confirms or rejects your claim.
- **1. Restate Claim-** ("I claim that .....because.....")
- **2. Evidence to Support Claim-** Explain why your data and observations counts as evidence to support your claim (Link evidence to claim by describing data in words. ("The data table or graph shows ...")
- **3. Scientific Principals Involved-** Use videos, notes, and background information to describe the science behind your argument