

Experimental Design Template: Qualitative

Objective:

(What is the purpose of this experiment? What are you trying to accomplish?)

How will you determine the result?

(This can be an observation, calculation, etc. The result may be determining whether or not something occurred, or it may involve taking measurements.)

What do you need to find out in order to determine the result?

- **Constants:** *(to be looked up)*

- **Unmeasured Control Variables:** *(kept constant and do not need to be measured)*

- **Measured Control Variables:** *(kept constant, but need to be measured)*

Quantity	How Determined*

** If measured, state the equipment to be used.*

- **Manipulated (Independent) Variables:** *(can be determined without actions occurring)*

Quantity	How Determined*

** If measured, state the equipment to be used.*

- **Responding (Dependent) Variables:** (*require action(s) to be determined*)

Quantity	How Determined*	Action(s) Required

* If measured, state the equipment to be used.

Flow Chart

The timeline is shown in the center. List actions on one side and measurements and/or observations on the other, in chronological order. Use lines or arrows to connect each to its place on the timeline. Place a dot on the timeline to indicate when an action and a measurement or observation must take place at the same time.

(Hint: If you're using a computer to fill out this form, use a text box for each action or measurement and use Insert → Shapes to add connecting lines and dots.)

Actions

Timeline

Measurements/Observations

start



finish

