

Fundamentals of Experimental Design

What is measured during a controlled experiment?

Why?

Working in the science lab can be a lot of fun. Mixing random chemicals and burning stuff just to see what happens can be entertaining (and possibly dangerous), but it doesn't lead to anything helpful to the scientific community. In order to be helpful to the community, a researcher's work in the lab must be systematic. A researcher usually asks a question and then designs an experiment to investigate that question. In this activity you will identify different types of variables that will help you design controlled experiments.

Model 1 – Alka-Seltzer® and Vinegar

Before		Mix		After	
Alka-Seltzer					
100.0 mL Vinegar				100.0 mL solution	
84 kPa Room Pressure	23.5 °C Temperature	84 kPa Room Pressure	Changing °C Temperature	84 kPa Room Pressure	22.6 °C Temperature

1. Briefly describe the reaction illustrated in Model 1 in one or more complete sentences.
2. Did the room pressure change as the reaction occurred? If yes, was there an increase or decrease?
3. What two pieces of evidence observed during the "mix" phase of the reaction suggest that a chemical change is taking place?
4. Did the solution temperature increase or decrease during the reaction?

Model 2 – Results of Alka-Seltzer® Experiment

	Number of Alka-Seltzer Tablets	Volume of Vinegar (mL)	Room Pressure (kPa)	Initial Temp (°C) (Vinegar Solution)	Final Temp. (°C) (Final Mixture)
Trial 1	1	100.0	84	23.5	22.6
Trial 2	2	100.0	84	23.5	21.5
Trial 3	3	100.0	84	23.5	20.4
Trial 4	4	100.0	84	23.5	19.2
Trial 5	5	100.0	84	23.5	18.1

5. Which trial in the Model 2 data table corresponds to the reaction illustrated in Model 1?
6. Consider the five trials that produced the data in Model 2.
 - a. What variable was purposefully changed in the experiment?
 - b. What variable changed as a result of changing the variable listed in part a?

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