

Science Fair Display Board Set-Up:

Question:

What is the effect of the manipulated variable on the responding variable?

OR

How does the manipulated variable affect the responding variable?

Title:

Catchy, Concise, Clear!

Display Board Hints:

- **Type and Proof Read all items before gluing**
- **Use limited contrasting colors**
- **Attach all items neatly on construction paper backing**
- **Don't leave large empty areas on board**
- **Use computer generated tables, graphs, charts**
- **Display models, items from experiment, lab notes, etc.**

Procedure:

1. Set-up according to diagram or step-by-step directions.
2. Measure **metrically** and record the responding variable before Trial 1.
3. Conduct experiment (manipulated variable).
4. Measure and record after trial 1.
5. Repeat steps 3 and 4 for all the conditions of the manipulated variable.
6. Repeat steps 2 through 5 for trials 2 and 3 for accuracy.

Hypothesis:

As the manipulated variable is changed, the responding variable will change this way because (there should be some reason given).

Data:

Observations, tables, charts, graphs, photos, drawings, etc. with **Titles, Labels, and Explanations.**

Analysis:

Based on your data, what happened?

Materials:

-prepared materials for the manipulated variable
-a tool to measure the responding variable
-only 1 or 2 other essential things

Conclusion:

-What worked well?
-What didn't?
-What would you do differently next time?
-How does your research support your data analysis?
-How can you apply this project to your life?

Variables:

-Controlled: kept the same
-Manipulated: changed
-Responding: measured metrically

Bibliography:

List your sources in proper MLA format.