

Making a Data Table for a Controlled Investigation

Investigative question

What is the effect of wheel size on the distance a go-cart can travel?

Wheel Size vs. Distance Traveled

| Wheel Size (cm) | Distance Traveled (cm) | | | |
|--------------------|------------------------|---------|---------|------|
| | Trial 1 | Trial 2 | Trial 3 | Mean |
| 7.5 | | | | |
| 9 | | | | |
| 11.5 | | | | |

1. Title

- *Include the name of both the manipulated (changed) variable and the responding (measured) variable separated by vs. (versus).*

2. Manipulated (Changed) Variable

- *Make a column, then write the variable's name as the title.*
- *Include the abbreviation for the unit of measurement.*
- *Make a row for each type of the manipulated variable.*

3. Responding (Measured) Variable and the Trials (Tests)

- *You should conduct at least three trials, then calculate and record the mean (average) of those three trials. So you need four narrower columns under the responding (measured) variable title.*
- *The responding variable title should include the abbreviation for the unit of measurement.*