Understanding Your Variables

<u>INDEPENDENT variable</u>

X axis

Cause

Manipulated Variable

The thing you are messin' with



DEPENDENT variable

Y axis

Effect

Responding Variable

How the experiment's variable changes

Ex: As time passes, hair gets longer.

As time passes, children get taller.

Amount of days in school, amount of pages read.

More examples of Manipulated vs Responding:

- -amount of sunlight hours..... leaf size on plant
- amount of fertilizer..... thickness of stems
- -amount of water..... height of plant

^{*} IF time is one of your variables it is almost ALWAYS the CAUSE (X axis).