Types of Variables

Independent Variable is the variable you believe might influence an outcome. Also known as the manipulated variable or the one variable that is changed in an experiment.

The dependent variable is the variable that you expect to change as a result. Also known as the responding variable.

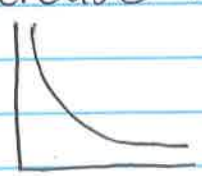
Ex: Nitrogen increases plant growth.

↑ Ind. Variable ↑ Dep. Variable

Constant or Controlled Variables - all the other conditions that you keep the same.

Relationships between Variables

Direct Relationship: As one variable increases so does the other. ↑↑

or they both decrease ↓↓

Inverse Relationship: The variables increase or decrease in opposite directions. ↑↓ or ↓↑