

Science is:

Taking Notes,

Making Observations

Labs, doing things

Experiments

Finding and using patterns in nature to predict the future and understand the past.

Lab Question:

1. It must be answerable with observable data
2. Must lead to explanations about how the world works
3. Help us predict the future and understand the past

Variables

Independent Variable: Manipulated. The one that you change.

Dependent Variable: Responding. The one you think will change when you change the independent variable.

Control Variables: All other variables that might affect the dependent variable and throw off your data. (We keep these constant)

You notice a book dropped from different heights creates a sound of different intensity. So you ask "How does the height of the book is dropped from affect the intensity of sound when it hits the ground?".

The independent variable: height book is dropped from

The dependent variable: Sound.

What are the controlled variables:

Book - use same book

Drop same way

Floor - same surface - same place

Same person in the same place

Same temp + weather