

Experimental Design:

- Uses Scientific Method
- Tests a hypothesis to solve a problem
- Requires 2 groups:
 - **Control Group:**
 - Standard for comparison
 - not experimented on
 - **Experimental Group:**
 - is experimented on
 - Differs by 1 variable
- Includes variables or factors
 - **Controlled variables:**
Factors that stay the same between groups
 - **Independent variable:**
 - single factor that is changed by experimenter.
 - what is being tested
 - **Dependent variable:**
 - factor that is observed & measured
 - data / results from lab / outcome

Drawing Conclusions:

- **Theory**
 - Statement of what is thought to be true & is supported by continual evidence
 - ex. CFC's are destroying the ozone layer
- **Law**
 - relationship in nature that occurs over & over again
 - ex. Newton's law of gravity