

# Scientific Method

## What is it???

- Series of steps followed by people (not just scientists) to Solve problems.

## Steps

- 1) Question want to find out about something we are curious about
- 2) Hypothesis - form an educated guess about what we think the answer to our question is
- 3) Perform experiments - make observations (data)
- 4) Analyze data - calculations, tables, graphs
- 5) Conclusion - Did our data support our hypothesis? Did we answer our question? Should we perform more experiments?

## Example of using S.M.

- 1) Problem - What ingredients are lacking on the food I just cooked?
- 2) Hypothesis - Salt must be lacking because the food is very sweet.
- 3) Experiment - I added salt in the food and then tasted it again.
- 4) Analysis - I found out that the tastes became balanced and improved.
- 5) Conclusion - I concluded that it so sweet so salt must be added to balance the taste.

## Pieces and Parts...

- Variable - any part of an experiment that can Changed ex: height, surface, mass
- Independent Variable (experimental variable) - part of experiment that is manipulated or changed by scientist
- Dependent Variable - part of the exp. that is affected because of the independent variable
- Controlled Experiment - test 1 variable at a time
- Constant - part of experiment that stays the Same
- Control - part of experiment not being tested