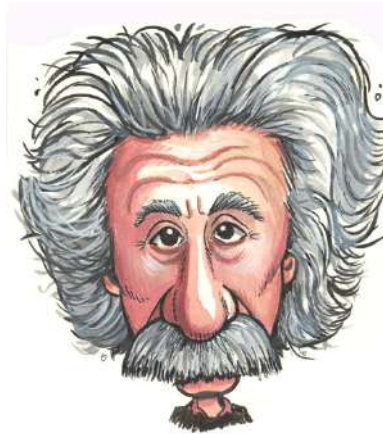


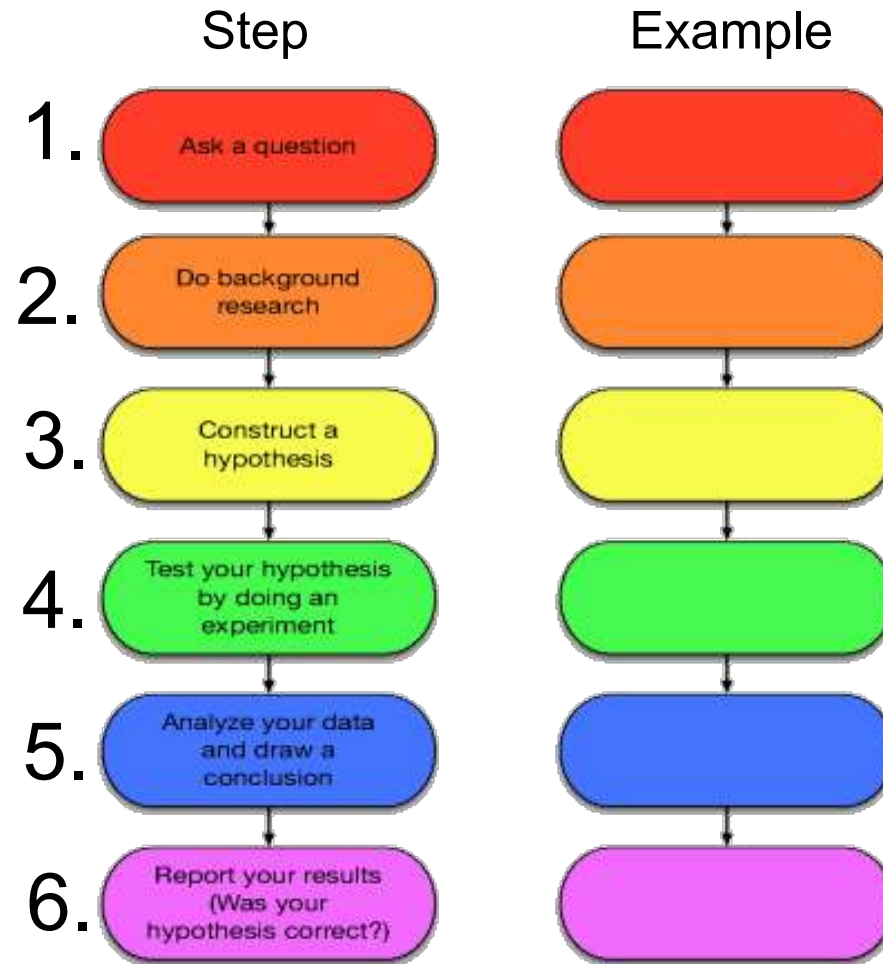
# Question 1: What is the scientific method?

Answer 1: the way scientists learn and study the world around them.

The basis of the scientific method is asking questions and then trying to come up with the answers.



Question 2: What are the steps of the scientific method?



### Question 3: What are the variables in an experiment?

Answer: Independent and Dependent variables compared with a control group

Example:



## Question 4: What is an independent variable (IV)?

Answer: The independent variable is the one that is changed by the scientist.

Example: In an experiment to test if the type of fertilizer makes plants grow taller, the **type of fertilizer** is the IV.



## Question 5: What is an dependent variable (DV)?

Answer: The Dependent variable is measured in the experiment

Example: The **height** of the plant **measured** is the DV in the bean experiment that compares the effectiveness of different types of fertilizers



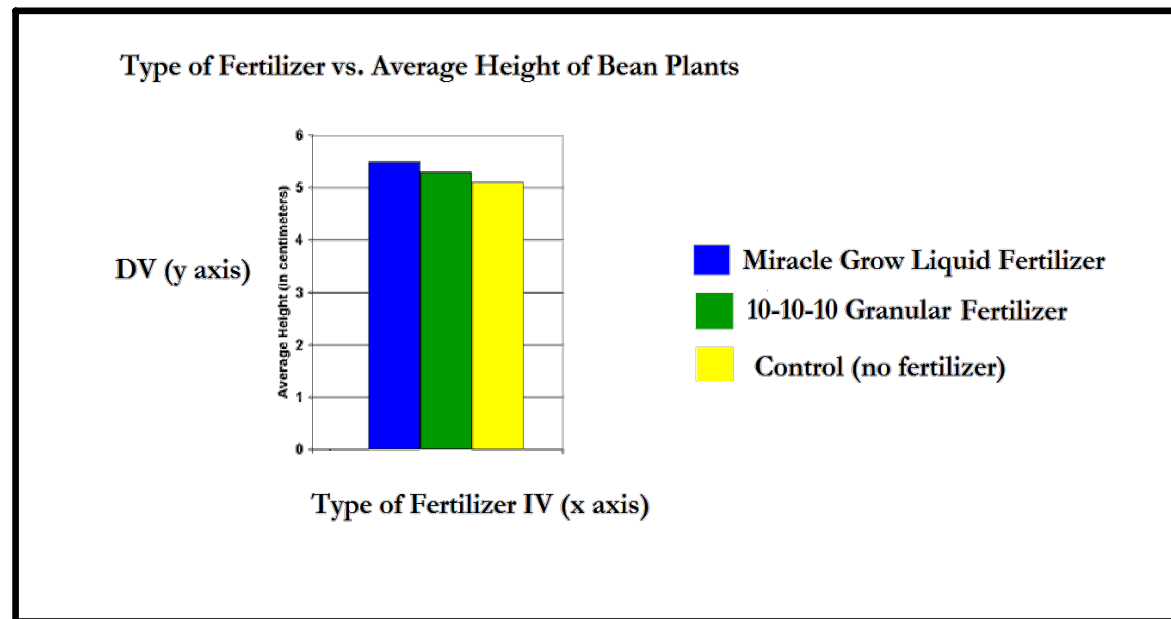
Question 6: How do you graph the variables to show your data?

Answer:

IV = X axis

DV = Y axis

Example:



## Question 7: What is collected in an experiment?

Answer: Data

Example: Data can be organized in graphs or charts to make it easier to understand your results

