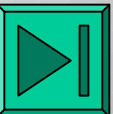
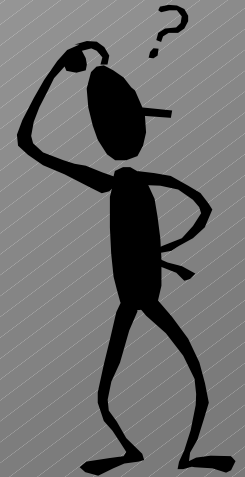


OH NO! Billy has a question but he is not sure how to go about it in a scientific matter. We must tell him about...

The Scientific Method



The Scientific Method is a logical and orderly way to solve a problem.

There are seven steps to the Scientific Method.

1) Observe

2) State the problem

3) Gather information about the problem

4) Hypothesize

5) Experiment

6) Record data

7) State the conclusion

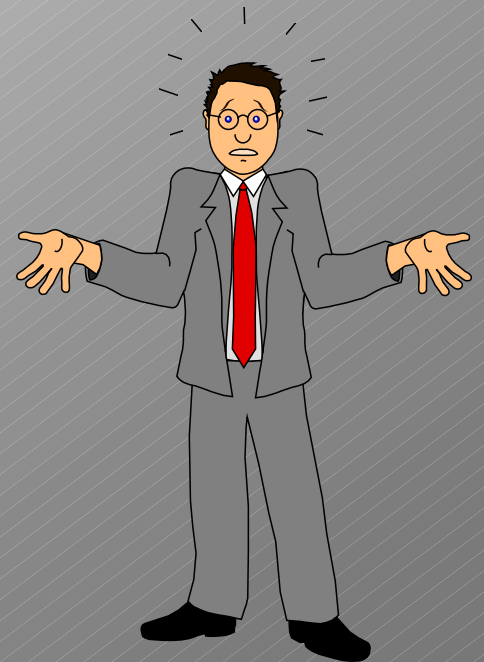
Observe

At the beginning of the Scientific Method we have observing. This is where you find a problem and decide to look into it.



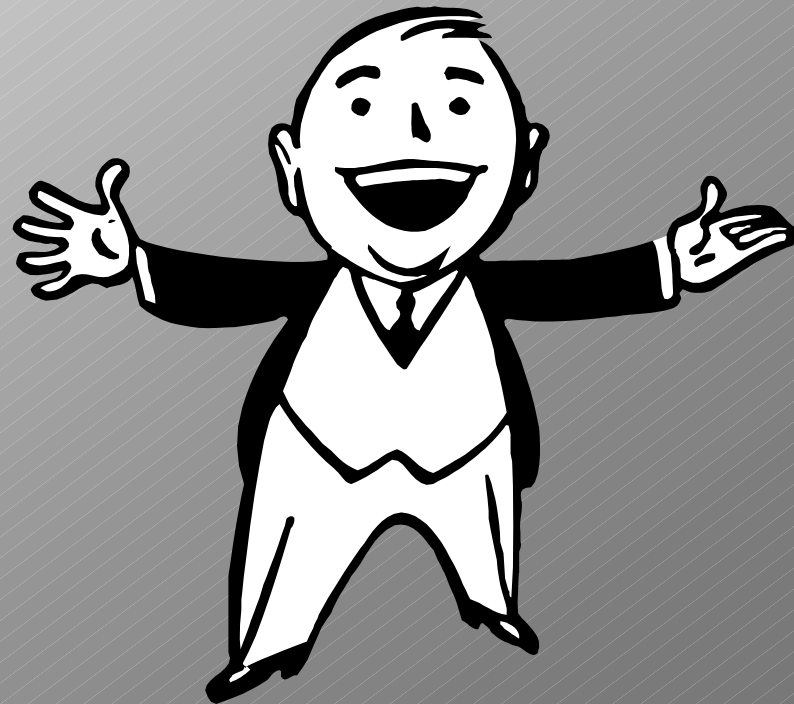
Example

Billy buys a bag of skittles and wonders exactly how many are in his bag. After pondering upon this for a while he wonders if one bag has more than another. This is observing.



State the Problem

In this step you figure out exactly what your problem is. You must state it in a matter that includes every angle of the problem.



Example

Billy thinks about his problem. He states that it isn't known if every bag of skittles has the same number of candies inside.

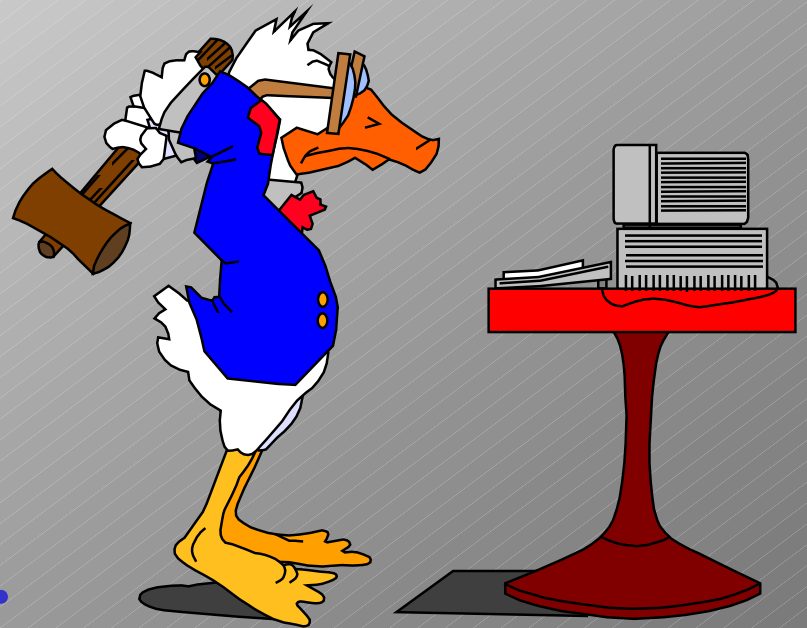
Gather Information About the Problem

This is the step in which you go and find out about the problem. Use any resource available and find out as much about it as possible.



Example

Billy gets online and finds the skittles website. It says that Skittles are measured by weight and not volume. This still does not satisfy Billy for he doesn't know if each Skittle weighs the same.



Hypothesize

- In this step you will have to make an educated guess about what you think will happen in your experiment.



Example

Billy states:

“I think there isn’t the same number of skittles in the bags”.

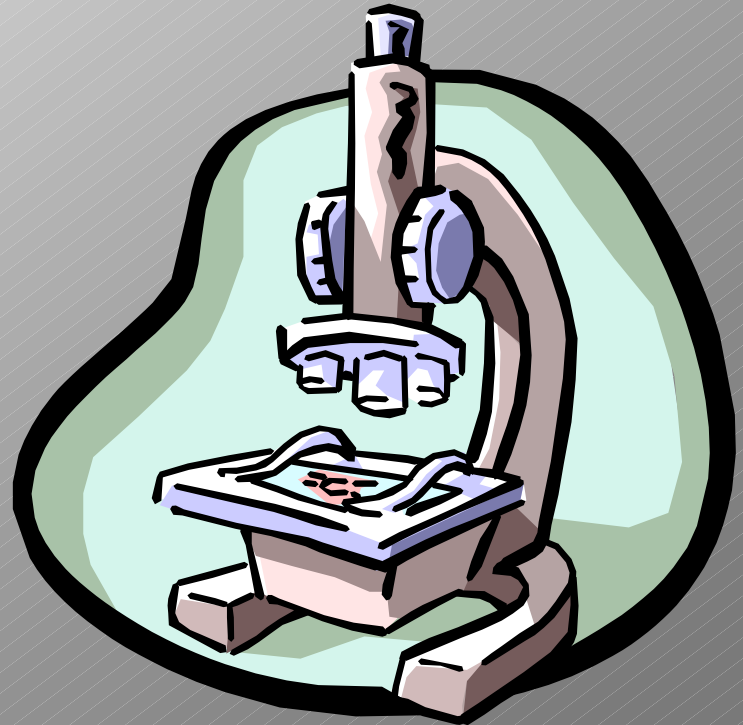
Experiment

In this step you will test your hypothesis over and over again.

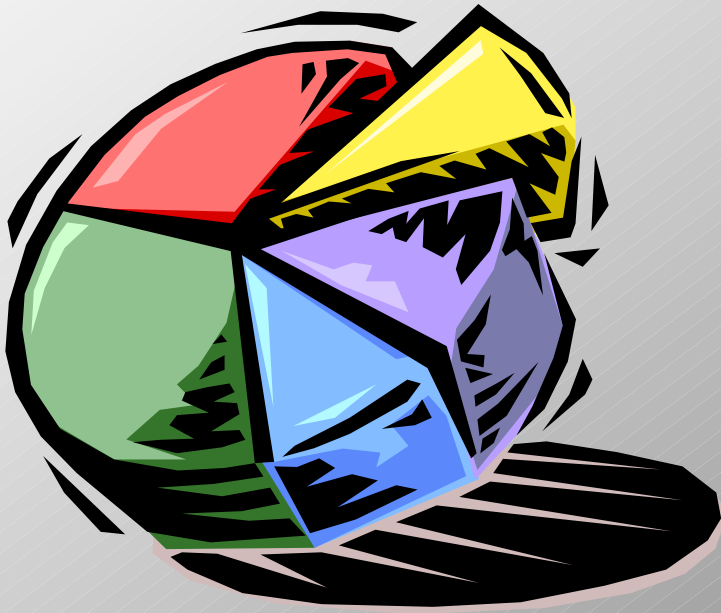
Also in this step you will determine the independent, dependent variable, and constant.

Example

In Billy's experiment he opened one of skittles at a time and counted them out. After 4 bags he stopped and wrote down his data.



Record Data



In this step you will record all the data that you used in the experiment and the data that you found out.

Example



State the Conclusion

In this final step you State your conclusion to the experiment and see if your hypothesis was right.



Example

After recording his data from the experiment Billy concluded that there isn't the same number of skittles in every bag.



The End

Now you know
basically
everything about
Scientific Method.

