



Scientific Method

Who uses it?

What is it?

Why should I care?

Everyone uses it everyday.

Was Even You!!!!!!!!

It is a way to solve problems. Do you have any problems to solve?



Any of these sound familiar?

- Where are my shoes?
- What should I have for lunch?
- What classes should I take?
- > Which deodorant works the longest?
- What is the cure for cancer?





Scientists often use the scientific method to solve problems and answer questions. There are 6 steps to the Scientific Method.



- №1. Ask a question based on observations.
 This is the problem you want to solve.
- ≈2. Form a hypothesis, which is a possible explanation for what you have observed. Gather information.
- ≈3. Test the hypothesis by conducting experiments.
- →4. Analyze the results collected from experiments.

 The results are based on your observations.
- 参5. Draw conclusions from the results of your experiment.
- ≈6. Communicate results to other scientists.

By following these steps, you will learn about your question.



Scientists may have to repeat steps of the scientific method or do them in a different order.

Ask a Question (

- *This is the problem that you are trying to solve.
- *Try to narrow it down and be very specific.







Information -



Gather data about your question. Sources include--

books

magazines

reports

experts

your past experiences





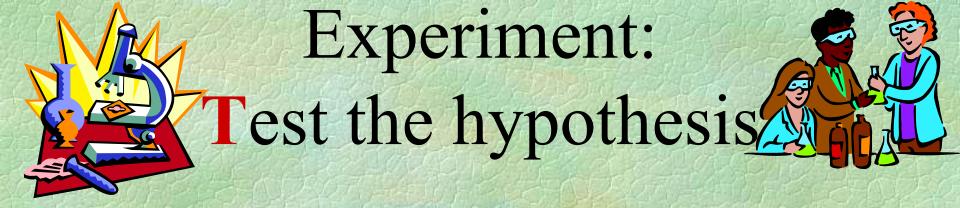
Form a Hypothesis:

-an educated guess

-a prediction based on data

-what you think the answer is based upon your gathered information





- An experiment is broken into 2 parts, materials and procedure.
- Materials is a list of equipment that you will need for the experiment.
- Procedure is a list of instructions that you need to follow for the experiment.

Make Observations Analyze the results

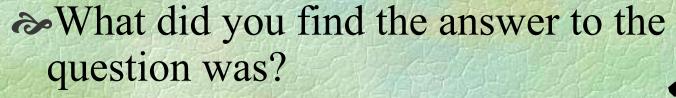
- Observations are based on the collection of information and data from the experiment.
- It may be charts, graphs, or written work.
- This is WHAT HAPPENED!!!!!







Draw Conclusions



- was not correct. You learned!!!!!!!!
- Scientists are always asking new questions or looking at old questions from a different angle. As they find new answers, scientific knowledge continues to grow and change.



Communicate your results by reporting your findings

One of the most important parts of the scientific method is to report your findings to others.

You will help others learn.

