

Scientific Method



Scientists discover new things by:

Observing the World

Asking A Question

Thinking of A Possible Explanation

Testing That Explanation

Drawing Conclusions

This process is called the scientific method.

Scientific Method Steps:

Ask a question.

Find out some background information.

Construct a hypothesis (What you think)

Test your hypothesis - conduct experiment
- collect data

Analyse data and draw conclusions.

Communicate your results.

Adjust hypothesis
test again in
a new way



Scientific Study- Asking Questions

A scientific question can be answered with direct observation or with scientific tools.

A broad scientific question may be broken into smaller questions.



Scientific questions can begin with:

What...

How...

Why...

Which...

When...

Where...

Who...

Organising Your Scientific Study

- * Record all of your ideas and observations in a book. (Work can also be done on a computer.)
- * Research for background knowledge. Write down ideas and further questions as they arise.
- * Record your experiments, describing the exact procedures that you followed. Record all observations and results of your experiments.
- * Review your data and draw conclusions. Show how your results support or contradict your hypothesis.

