

THE SCIENTIFIC METHOD

Scientific Method: a problem-solving tool used by scientists to determine the validity of a hypothesis. It is an organized process for finding a solution to a question.

Scientific Method Steps

Step 1: State the problem in the form of a question

- It is extremely important to begin with a solid problem or question.
- A good question can be examined, measured and analyzed.
- Choose a problem that you do not know the answer to and a problem that you can work with.

Step 2: Research the problem

- Research is a critical part of any science project or experiment.
- Research can either make or break the project.
- When doing research, use a wide variety of resources outside of the school library.
- Research resources: books, library index, newspapers, magazines, science videos, and internet.
- Scientists rely heavily on the scientific method because there are so many variables to consider and any one of them can affect the results of the experiment.

Step 3: Form a hypothesis

- Hypothesis: an educated guess about a possible solution or answer to your problem or question
- Developing a good, solid hypothesis is the most difficult step of the scientific method.
- Your hypothesis is the center of your project.
- If the hypothesis doesn't make sense, the whole project won't make sense.
- When forming the hypothesis, stick with a simple statement, and make it precise and measurable.

Step 4: Write down the procedures that will be used to test your experiment

- Detailing the entire experiment and recording all the variables analyzed, scientists are able to track the validity of the hypothesis.
- Baseline measurement: something to measure our variables with
- Writing your procedures will:
 - a) help one gather the necessary materials
 - b) make sure that the experiment fits the hypothesis that is being tested
 - c) help others who want to repeat the experiment

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Jicheng Xie



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