

A step-by-step guide to the scientific method

By Gale, Cengage Learning, adapted by Newsela staff

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When you have a problem, how do you solve it? Do you consider what you already know about the problem, think of a possible answer and then see if your answer is correct? If so, you are using the scientific method. The scientific method is a way of carefully collecting evidence about a question or problem, using that evidence to form a possible answer and then testing the answer to see if it is right.

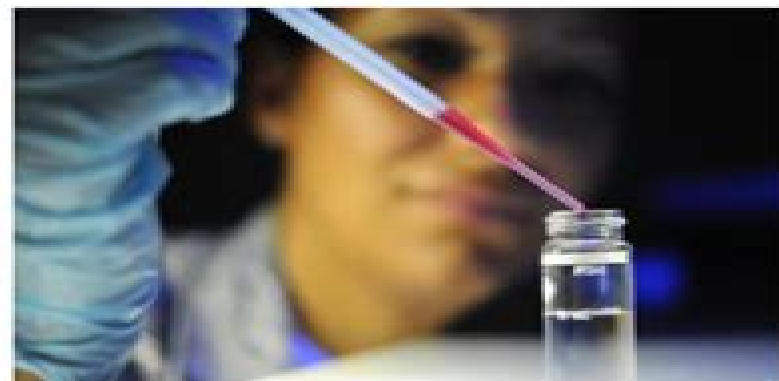
What Are The Steps In The Scientific Method?

The scientific method has six steps, described below. They will help you solve all kinds of problems, in and out of school.

1. State a problem or ask a question.
2. Gather background information.
3. Form a hypothesis.
4. Design and perform an experiment.
5. Draw a conclusion.
6. Report the results.

Step 1: State A Problem Or Ask A Question

To begin using the scientific method, think about the world around you. You may see something that makes you curious, such as your sandwich drying out by lunchtime on some days but not on others.



A bioengineer tests the pH level in a water sample. Applying the scientific method requires precision, but that is how we learn more about the natural environment. Photo by: Grace Nichols/U.S. Air Force.



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