

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.

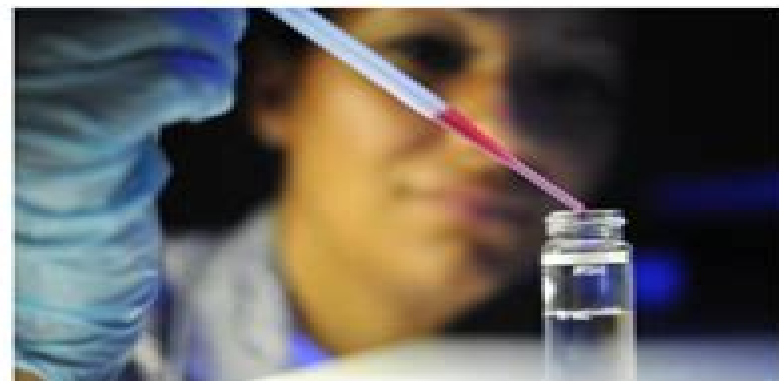
What Are The Steps In The Scientific Method?

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.



Scientific Method Guide For Students

J Dewey



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Table of Contents Scientific Method Guide For Students

1. Understanding the eBook Scientific Method Guide For Students
 - The Rise of Digital Reading Scientific Method Guide For Students
 - Advantages of eBooks Over Traditional Books
2. Identifying Scientific Method Guide For Students
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Scientific Method Guide For Students
 - User-Friendly Interface
4. Exploring eBook Recommendations from Scientific Method Guide For Students
 - Personalized Recommendations

- Scientific Method Guide For Students User Reviews and Ratings
- Scientific Method Guide For Students and Bestseller Lists
- 5. Accessing Scientific Method Guide For Students Free and Paid eBooks
 - Scientific Method Guide For Students Public Domain eBooks
 - Scientific Method Guide For Students eBook Subscription Services
 - Scientific Method Guide For Students Budget-Friendly Options
- 6. Navigating Scientific Method Guide For Students eBook Formats
 - ePub, PDF, MOBI, and More
 - Scientific Method Guide For Students Compatibility with Devices
 - Scientific Method Guide For Students Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Scientific Method Guide For Students
 - Highlighting and Note-Taking Scientific Method Guide For Students
 - Interactive Elements Scientific Method Guide For Students
- 8. Staying Engaged with Scientific Method Guide For Students
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Scientific Method Guide For Students
- 9. Balancing eBooks and Physical Books Scientific Method Guide For Students
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Scientific Method Guide For Students
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Scientific Method Guide For Students
 - Setting Reading Goals Scientific Method Guide For Students
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Scientific Method Guide For Students
 - Fact-Checking eBook Content of Scientific Method Guide For Students

- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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