

Instructions

Read through the scientific method steps below and complete the activities that follow.

Steps of the Scientific Method

1. **Ask a Question:** Identify a problem or a question you want to answer.
2. **Do Background Research:** Gather information about the topic you are curious about.
3. **Construct a Hypothesis:** Make an educated guess about the possible answer to your question.
4. **Test Your Hypothesis:** Design and conduct experiments to test your hypothesis.
5. **Analyze Data and Draw Conclusions:** Look at the data collected and determine if it supports your hypothesis.
6. **Communicate Results:** Share your findings with others through reports or presentations.

Activity 1: Question and Hypothesis

Think of a science question you have always wondered about. Write it down below:

Now, construct a hypothesis. What do you think the answer to your question might be? Write it below:

Activity 2: Experiment Planning

Imagine you are going to test your hypothesis. List 3 steps you would take to conduct an experiment:

1.
2.
3.

Activity 3: Data Analysis

How will you collect data from your experiment? Write down a method for gathering your information:

Activity 4: Results Communication

How would you share the results of your experiment? Describe your plan below:

Reflection

What do you think is the most important step of the scientific method? Why?