

The Seven Stages of the Scientific Method

Scientific Method Steps

The scientific method is a systematic process for asking questions, gathering data, and testing ideas. This ensures that experiments are fair, repeatable, and logical.

Word Bank: Use the stages below to help you fill in the boxes!

<p>Form a hypothesis: Write a possible answer that can be tested. If..... then..... because</p>	<p>Analyze data: Look for trends and patterns/ identify cause and effect relationships</p>
<p>Define the problem</p> <ul style="list-style-type: none"> - Make observations - Ask questions - Collect information 	<p>Plan an experiment: identify variables, identify control and experimental group, list materials, plan steps of procedures, identify limitations and possible sources of errors, and how you will ensure validity and reliability of results.</p>
<p>Perform the experiment</p> <ul style="list-style-type: none"> - Carry out experiment, collect and record data 	<p>Draw conclusions: State whether or not the data agrees with your hypothesis</p>
<p>Communicate results: Share your results with other scientists</p>	



Instructions: Look at the diagram below and fill in the missing information for the seven stages of the scientific method based on what happens at each stage.

Stages of the Scientific Method



