

An abstract, colorful illustration featuring various scientific and medical motifs. In the center, a pair of hands in teal and light blue gloves holds a glowing green sphere. To the right, two test tubes are shown: one with a blue cap and the other with a green cap. Above them, a petri dish contains three colored circles (orange, yellow, and orange). To the left, a circular icon with diagonal stripes is visible. The background is composed of overlapping geometric shapes in shades of purple, teal, and orange. The title text is centered over a semi-transparent white rectangle.

STEPS OF THE SCIENTIFIC METHOD

The **Scientific Method**
is a process that is
used to find answers
to questions about
the world around us.



Is there only one “scientific method”? No, there are several versions of the scientific method. Some versions have more steps, while others may have only a few. However, they all begin with the identification of a problem or a question to be answered based on observations of the world around us and provide an organized method for conducting and analyzing an experiment.



Hypothesis and Data

- **What is a hypothesis?** It is an educated guess based on observations and your knowledge of the topic.
- **What is data?** It is information gathered during an experiment.

Scientific Method

State or Identify the Problem/Ask Question

Formulate a Hypothesis (Do some research)

Create an Experiment (That will test your Hypothesis)

Perform the Experiment

Analyze Data (Is your data accurate or the experiment flawed? If so... Modify the

Experiment. If NOT ↓)

Communicate the Results