

Name _____

A Guide to Unraveling Mysteries

Short-Answer Answer Key

1. Answers will vary. Example: "A scientist might ask, 'What makes the sky appear blue?'"
2. A hypothesis is an educated guess that can be tested through experiments. It's important because it guides the scientific investigation and helps predict outcomes.
3. The step in the scientific method where scientists analyze data is crucial because it allows them to find patterns, draw conclusions, and determine whether their hypothesis is supported by the evidence.
4. Scientists share their results with the world to contribute to the body of scientific knowledge, allow others to replicate their experiments, and build upon their findings.
5. Answers will vary. Example: "I once used the scientific method to figure out why my plants were not growing well by changing the amount of sunlight they received."

