

1 Why do people use the scientific method?

- A** So they can make logical explanations for why things happen
- B** So they can find out whether or not a hunch of theirs is correct
- C** Both of the above

2 What is the first step of the scientific method?

- A** Analyzing the available data
- B** Forming a hypothesis
- C** Recognizing the problem

3 Right after you recognize the problem, it's time to:

- A** Observe and infer
- B** Draw a conclusion
- C** Make a detailed data chart

4 What is an inference?

- A** A conclusion based on observations
- B** The result of an experiment
- C** A wild guess

5 What is another word for a testable explanation of your observations?

- A** Conclusion
- B** Hypothesis
- C** Experiment

6 Which of the following describes something that can change in an experiment?

- A** Variable
- B** Variation
- C** Veritaserum

7 What is the final major step in the scientific method?

- A** Identifying a problem
- B** Testing your hypothesis
- C** Making conclusions about the experiment

8 In science, an explanatory statement that's been repeatedly confirmed by experimentation is called:

- A** A guess
- B** A theory
- C** A hypothesis

9 Which of the following is an example of a testable hypothesis?

- A** The beach is more fun than an amusement park
- B** A plant needs five hours of sunlight per day to grow
- C** Ice cream is delicious

10 What happens if you test a hypothesis multiple times and the data doesn't support your prediction?

- A** You must have done something wrong, so you should try again
- B** There must not be an answer to your problem, so you should abandon it
- C** The hypothesis should be re-thought