

Name: \_\_\_\_\_ Date: \_\_\_\_\_

## Ready to Solve Like a Pro? 5th Grade Scientific Method Quiz

Observation, hypothesis formation, and data tracking—the essential tools for any young investigator seeking to understand how the world works.

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**1. Imagine you see that your bike chain is rusty after a rainstorm. What is the very first step you should take if you want to solve this scientifically?**

- A. Build a new bike
- B. Ask a question about why it happened
- C. Write a final report
- D. Paint the chain a different color

**2. A hypothesis is essentially a 'best guess' or a prediction that a scientist can test with an experiment.**

- A. True
- B. False

**3. When a scientist writes down the measurements or colors they see during an experiment, they are collecting \_\_\_\_\_.**

- A. Guesses
- B. Equipment
- C. Data
- D. Opinions

**4. Which of these is a great way for a 5th grader to 'Communicate Results' after a science project?**

- A. Keeping the results a secret
- B. Throwing away the notes
- C. Creating a poster board for a science fair
- D. Starting a new experiment immediately

**5. In a fair test or experiment, you should change five different things at the same time to get fast results.**

- A. True
- B. False

**6. The step where you look at your charts and graphs to figure out what happened is called \_\_\_\_\_.**

- A. Data Analysis
- B. Asking Questions
- C. Buying Supplies
- D. Taking a Nap

**7. If your experiment shows that your hypothesis was wrong, what should you do?**

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- A. Change the data to make it look right
- B. Give up on science forever
- C. Feel proud that you learned something and share the result
- D. Hide the results from your teacher

**8. Scientists often do research at the library or online before they start their experiment.**

- A. True
- B. False

**9. A summary of your results that answers your original question is called a \_\_\_\_\_.**

- A. Question
- B. Conclusion
- C. Materials List
- D. Hypothesis

**10. Which of these is an example of an observation?**

- A. I think the grass is green because of bugs
- B. The grass in the shade is taller than the grass in the sun
- C. If I water the grass, then it will grow
- D. Grass is better than dirt