

# Identifying Sources of Error

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Science Review Week 2

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

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

Answer the following questions based on what you learned about scientific investigations and sources of error.

1. What is one type of experimental error mentioned in the lesson?

- A. Measurement inaccuracies
- B. Incorrect hypothesis
- C. Lack of observation

2. Bias in data collection can affect the results of an experiment.

- True       False

3. Why is it important to analyze our investigation methodology critically?

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4. The simple believes everything, but the prudent gives thought to his \_\_\_\_.

5. Which of the following is an environmental influence that could impact observations?

- A. Weather conditions
- B. Type of experiment
- C. Number of participants

6. What could we do differently next time to improve our research methods?

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7. All scientific errors can be completely avoided.

- True       False

8. Measurement inaccuracies can lead to \_\_\_\_ in research findings.

9. What is a potential source of error in data collection?

- A. Using the wrong equipment
- B. Following the scientific method
- C. Collaborating with peers

10. How might our observations be influenced by external factors?

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Answer Key

1. Measurement inaccuracies 2. True 3. It helps us identify any errors that may affect our results and improve future experiments. 4. steps 5. Weather conditions 6. We could ensure more accurate measurements and reduce possible biases in our data collection. 7. False 8. errors 9. Using the wrong equipment 10. External factors like noise, temperature, or distractions can affect how we perceive and record our observations.