

Data Collection Day 1 Review

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Understanding Scientific Investigation

Name: _____

Date: _____

Answer the following questions based on what you learned about data collection in your independent investigations.

1. What is the first objective of data collection mentioned in the lesson?

- A. Troubleshoot experimental procedures
- B. Record scientific observations with precision
- C. Develop patience

2. Why is precision important in data collection? Provide an example.

3. Handling unexpected experimental results is not important in scientific investigations.

- True False

4. According to Proverbs 4:7, getting wisdom and understanding is ____ all your possessions.

5. How might small measurement errors impact your results? Explain in a few sentences.

6. What makes scientific data reliable?

- A. Personal opinion
- B. Consistent measurement
- C. Guesswork

7. Developing ____ and careful attention to scientific methodology is essential for successful investigations.

8. The lesson emphasized the importance of accurate record-keeping.

- True False

9. What challenges did you encounter during your data collection? Describe one.

10. Which of the following is a strategy for accurate record-keeping?

- A. Writing down data after finishing the experiment
- B. Using a consistent format for notes
- C. Ignoring unexpected results

Answer Key

1. Record scientific observations with precision 2. Precision ensures that the data is accurate and reliable. For example, measuring liquid volume with a graduated cylinder rather than a cup gives more accurate results. 3. False 4. worth 5. Small measurement errors can lead to inaccurate data, which may affect the outcome of an experiment. If measurements are off, the conclusions drawn from the

data may also be incorrect. 6. Consistent measurement 7. patience 8. True 9. I had trouble keeping my measurements consistent because I was using different tools. This made it hard to compare my results accurately. 10. Using a consistent format for notes