

# Scientific Investigation Review

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## Understanding Data Collection and Analysis

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

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

Answer the following questions based on what you learned about data collection and analysis.

1. What is one method scientists use to collect data?

- A. Observation
- B. Guessing
- C. Ignoring

2. Graphs help us understand scientific information by visually representing \_\_\_\_ and \_\_\_\_ of data.

3. Why is accurate data collection important in scientific investigation?

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4. Proverbs 18:15 teaches that wise people seek knowledge.

- True       False

5. Which of the following is a benefit of creating meaningful graphs?

- A. They make data look pretty
- B. They help us interpret data more easily
- C. They are not useful

6. How can accurate data help us understand God's creation?

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7. The heart of the discerning gets \_\_\_\_, and the ear of the wise seeks \_\_\_\_ (Proverbs 18:15).

8. Data collection is not important for understanding scientific concepts.

- True       False

9. What was the most interesting thing you learned about data today?

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10. What skill is developed when scientists analyze data?

- A. Critical thinking
- B. Carelessness
- C. Ignoring facts

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Answer Key

1. Observation 2. trends, relationships 3. Accurate data helps scientists make reliable conclusions and understand the world better. Without good data, we might misunderstand important information. 4. True 5. They help us interpret data more easily 6. Accurate data allows us to see the patterns and details of God's creation clearly, helping us appreciate and learn more about the world He made. 7. knowledge, knowledge 8. False 9. I learned how different methods of data collection can give us different insights about our world. 10. Critical thinking