

Scientific Investigation Review

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Comprehension Worksheet

Name: _____

Date: _____

Answer the following questions based on today's lesson about creating a scientific investigation proposal.

1. What is one key component of a strong investigation proposal?

- A. Testable hypothesis
- B. Random guesses
- C. Personal opinions

2. Explain why having a testable hypothesis is important for scientific investigations.

3. Careful planning is not necessary for scientific research.

- True False

4. Wisdom is supreme. Get ____.

5. Which part of the investigation proposal outlines what you will measure?

- A. Hypothesis
- B. Data collection methods
- C. Conclusion

6. What makes a good scientific question? Give an example.

7. An investigation proposal should be vague and unclear to allow flexibility.

- True False

8. The process of collecting information to support or reject a hypothesis is called ____.

9. What does Proverbs 4:7 teach us about wisdom in relation to scientific investigation?

- A. Wisdom is unimportant.
- B. Wisdom is valuable and should be sought after.
- C. Wisdom is only for the wealthy.

10. How does careful planning enhance the outcome of scientific research?

Answer Key

1. Testable hypothesis 2. A testable hypothesis allows scientists to conduct experiments and gather data to confirm or reject their ideas. Without it, the investigation may lack direction and focus. 3. False 4. wisdom 5. Data collection methods 6. A good scientific question is clear and specific. For example, 'How does the amount of sunlight affect plant growth?' is a good question because it

can be tested. 7. False 8. data collection 9. Wisdom is valuable and should be sought after. 10. Careful planning helps ensure that the investigation is organized and that all necessary steps are followed. It can lead to more accurate results and helps scientists avoid mistakes.