

Planning Our Investigation Review

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Understanding the Scientific Method

Name: _____

Date: _____

Answer the following questions based on what you learned about planning a scientific investigation.

1. What is the first step in designing a scientific experiment?

- A. Forming a hypothesis
- B. Identifying the research question
- C. Writing a conclusion

2. An independent variable is the factor that we can ____ in an experiment.

3. Why is it important to control other factors in an experiment?

4. What does the dependent variable measure in an experiment?

- A. The factor we change
- B. The factor we observe
- C. The factor we keep the same

5. Match the term to its definition.

Hypothesis

Factors kept the same during the experiment

Controlled Variables

An educated guess about the experiment

6. What is a systematic approach to planning an experiment?

7. In planning our investigation, we should ask a clear ____ question.

8. What is one benefit of testing only one variable at a time in an experiment?

- A. It makes the experiment easier
- B. It helps to find the cause of changes
- C. It allows for more variables

9. How does God's wisdom relate to planning a scientific investigation?

10. Proverbs 3:19 states that Yahweh by wisdom founded the ____.

Answer Key

1. Identifying the research question 2. change 3. To ensure that the results are accurate and reliable. 4. The factor we observe 5. An educated guess about the experiment 6. A systematic approach means being organized and following steps carefully. 7. research 8. It helps to find the cause of changes 9. God's wisdom shows us the importance of careful planning in experiments. 10. earth