

# Planning Investigations Review

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## Understanding Scientific Investigation Skills

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

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

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

1. What is one important component of a good scientific procedure?

- A. Random guessing
- B. Step-by-step instructions
- C. Ignoring measurements

2. What makes a good scientific question?

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3. Scientists must ensure their experiments are \_\_\_\_ to get accurate results.

4. Precise measurement is not important in scientific investigations.

- True       False

5. What should you include in your investigation plan?

- A. Personal opinions
- B. Clear procedures
- C. Only the conclusion

6. How did you ensure your experiment would be fair?

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7. The process of testing a hypothesis is called a \_\_\_\_ experiment.

8. It is not necessary to document your measurements in a scientific investigation.

- True       False

9. What is meant by 'variables' in an experiment?

- A. Things that stay the same
- B. Things that can change
- C. Things that are not important

10. Why is wisdom important in planning scientific investigations?

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### Answer Key

1. Step-by-step instructions   2. A good scientific question is clear, specific, and can be tested through experiments.   3. fair   4. False   5. Clear procedures   6. I made sure to only change one variable at a time and kept all other conditions the same.   7. scientific   8. False   9. Things that can change   10. Wisdom helps us to think carefully, ask good questions, and understand what we are trying to learn.