

Science Homework #6

SECTIONS 3A, B, C, D, & E

SEPTEMBER 23-27, 2024

Homework

- Complete “Topic 1a Think and Work like a Scientist” Study Guide.
- Use your notebook to help you complete the study guide.
- Use this Quizlet to help you study
- [Topic 1a Test Quizlet](#)

Contact Me

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Vocabulary

[Topic 1a Vocabulary:](#)
[Think & Work Like a Scientist](#)



Reminders

- Homework #6 due Monday, 9/30/24
- **Topic 1a TEST, Wednesday 9/25/24**



Topic 1a: Thinking and Working Like a Scientist Study Guide

1. What are three things scientists do when trying to learn about the world?
a) _____ b) _____ c) _____
2. Why is it important for scientists to share their results with others?
3. When scientists make a prediction, what are they doing?
4. Fill in the blank: A _____ helps scientists measure temperature.
5. Which tool would a scientist use to see something very small?
a) Microscope
b) Beaker
c) Thermometer
6. Fill in the blank: A balance scale is used to measure _____.
7. Why should you never taste or smell materials in a science experiment unless you are told to?
8. Fill in the blank: Wearing _____ protects your eyes during experiments.
9. What are two things you should do to stay safe when conducting a science experiment?
a) _____
b) _____
10. Fill in the blank: The first step of the scientific method is to _____.

11. What is a hypothesis, and how is it used in an experiment?

12. What does it mean to "collect data" during an experiment?

13. Fill in the blank: When you use your senses to notice something, it's called an _____.

14. How is an inference different from an observation?

15. If you see dark clouds in the sky, what **inference** could you make about the weather?

16. Fill in the blank: A testable question is a question that can be answered by doing an _____.

17. Which of these is a testable question?

a) "What happens if we water plants with orange juice instead of water?"

b) "What is your favorite kind of food?"

18. Fill in the blank: A _____ is a guess or prediction that can be tested.

19. Write a hypothesis for this question: "What happens if I give a plant more sunlight?"

20. What is the independent variable in an experiment?

21. Fill in the blank: The dependent variable is what you _____ during the experiment.

22. Why is it important to have constant variables in an experiment?