

This is a great activity to help students understand how to write lab reports. It uses friendly language and provides detailed guidance

Lab Report

Name: _____
 Date: _____
 Experiment Title: _____

Purpose/Question:
 What is the purpose of this experiment?

Hypothesis:
 What do you predict will happen in the experiment?
 I think that: _____
 because: _____

Materials:
 What materials will you need for this experiment? List them below.

Procedure:
 List the steps you followed during the experiment.

Data/Observations:
 What did you observe or measure during the experiment? Record your data.

Conclusion:
 What did you learn from this experiment? Was your hypothesis correct or incorrect? Describe.
 Hypothesis: _____
 Result: _____
 What would you do differently if you did this experiment again? Why?

Rubric for Grading the Lab Report

Criteria	Excellent (4)	Good (3)	Fair (2)	Needs Improvement (1)
Purpose/Question	Clear, detailed, and relevant	Clear and relevant	Partial or unclear	No clear purpose
Hypothesis	Strong, logical, and well-reasoned	Reasonable and well-reasoned	Weak or poorly reasoned	No hypothesis
Materials & Procedure	Complete, accurate list and clear steps	Mostly complete list and clear steps	Missing key materials or steps	Incomplete
Data/Observations	Detailed, accurate, and well-organized	Reasonably detailed and organized	Incomplete or unclear data	No data or observations
Conclusion	Strong, logical, and well-reasoned	Reasonable and well-reasoned	Weak or poorly reasoned	No conclusion
Reflection	Thoughtful, detailed, and well-reasoned	Reasonable and well-reasoned	Weak or poorly reasoned	No reflection

Scientific Method Experiment Scenario

Scenario: The Great Plant Growth Experiment

You've noticed that some plants in your garden grow taller than others, even though you water them the same. You wonder if different types of water affect plant growth.

You decide to conduct an experiment where you water three identical plants with different liquids: tap water, saltwater, and sugar water.

You will measure the growth of the plants over two weeks.



Lab Report

Name: September 6, 2020
 Date: Emily Thompson

Purpose/Question:
 What is the purpose of this experiment?
 The purpose of this experiment is to find out if different types of water (tap water, saltwater, and sugar water) affect the growth of plants.

Hypothesis:
 What do you predict will happen in the experiment?
 I think the plants watered with tap water will grow the tallest.

Materials:
 What materials will you need for this experiment? List them below.
 • 3 identical potted plants
 • 1 measuring cup
 • 1 tap water
 • 1 liter of saltwater
 • 1 liter of sugar water
 • 1 ruler to measure the height of the plants

Procedure:
 List the steps you followed during the experiment.
 • I took the plants to the garden and watered them with tap water.
 • I took the plants to the garden and watered them with saltwater.
 • I took the plants to the garden and watered them with sugar water.
 • I measured the height of the plants every day for two weeks.

Data/Observations:
 What did you observe or measure during the experiment? Record your data.

Conclusion:
 What did you learn from this experiment? Was your hypothesis correct or incorrect?
 In conclusion, the hypothesis was correct. The plants watered with the water you predicted they would grow the tallest did grow the tallest.

Reflection:
 What would you do differently if you did this experiment again? Why?
 I would like to see if the plants watered with saltwater or sugar water would grow taller than the tap water.