

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 No. _____

Purpose/Question

What is the purpose of this experiment?

Hypothesis

What do you predict will happen in the experiment?

I think that _____

Materials

What materials will you need for the 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 below.

See below from 2 separate pages.

Conclusion

What did you learn from this experiment? Was your hypothesis correct or incorrect? Explain.

Reflection

What would you do differently if you did the experiment again? Why?

Rubric for Grading the Lab Report

Criteria	Excellent (5)	Good (4)	Fair (3)	Needs Improvement (2)
Purpose/Question	Clear, detailed, and specific	Clear purpose	Purpose is unclear	No clear purpose
Hypothesis	Strong prediction with reasoning	Simple prediction with reasoning	Weak prediction	No hypothesis
Materials & Procedure	Thoroughly describes the materials used and the steps	Clearly explains the steps	Missing key materials or steps	Unclear
Data/Observations	Detailed observations	Organized observations	Incomplete or unclear data	No data or observations
Conclusion	Strong conclusion that explains the results	Conclusion explains the results	Conclusion is unclear	No conclusion
Reflection	Thoughtful reflection on the experiment	Reflection on the experiment	Limited reflection	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 _____
 Date _____
 Experiment No. _____

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 that the plants watered with tap water will grow the tallest.

Materials

What materials will you need for the experiment? List them below.

- 3 identical potted plants
- 1 measuring cup
- 1 tap water
- 1 salt water
- 1 sugar water
- 1 ruler
- 1 notebook for recording measurements

Procedure

List the steps you followed during the experiment.

- Label the plants as "Tap Water," "Saltwater," and "Sugar Water."
- Measure the height of each plant, and record the measurements in your notebook.
- Water the plants every day for the next two weeks.
- Measure the height of each plant every two days for the next two weeks.
- Record the measurements in your notebook.

Data/Observations

What did you observe or measure during the experiment? Record your data below.

See below from 2 separate pages. 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.

See below from 2 separate pages.

Day	Tap Water (cm)	Saltwater (cm)	Sugar Water (cm)
0	10.0	10.0	10.0
2	11.0	10.5	10.5
4	12.0	11.0	11.0
6	13.0	11.5	11.5
8	14.0	12.0	12.0
10	15.0	12.5	12.5
12	16.0	13.0	13.0
14	17.0	13.5	13.5
16	18.0	14.0	14.0
18	19.0	14.5	14.5
20	20.0	15.0	15.0

Conclusion

What did you learn from this experiment? Was your hypothesis correct or incorrect? Explain.

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.

I think that the plants watered with tap water will grow the tallest.

Materials: 3 identical potted plants, 1 measuring cup, 1 tap water, 1 salt water, 1 sugar water, 1 ruler, 1 notebook for recording measurements.

Procedure: List the steps you followed during the experiment. 1. Label the plants as "Tap Water," "Saltwater," and "Sugar Water." 2. Measure the height of each plant, and record the measurements in your notebook. 3. Water the plants every day for the next two weeks. 4. Measure the height of each plant every two days for the next two weeks. 5. Record the measurements in your notebook.