



SCIENCE EXPERIMENT

Testing the Effectiveness of Different Natural Weed Killers



Weed killers (herbicides) help control unwanted plants. In this experiment, you will test how effective different natural weed killers are at damaging or killing weeds.

Name: _____

Date: _____



QUESTION

Which natural weed killer is the most effective at damaging or killing weeds?



HYPOTHESIS

Make a prediction about which weed killer you think will work best and why.



MATERIALS

- Small potted weeds (same type and similar size)
- White vinegar (5% acidity)
- Boiling water
- Salt water (2 tablespoons of salt in 1 cup of water)
- Dish soap solution (1 teaspoon of dish soap in 1 cup of water)
- Spray bottles or droppers (one for each treatment)
- Labels or tape and marker
- Measuring cups and spoons
- Ruler (optional)
- Notebook and pen
- Gloves (optional)
- Tray or area to protect your work surface



PROCEDURE

1. Place your potted weeds in a sunny area.
2. Label each pot with one of the following:
 - Control (water only)
 - White Vinegar
 - Boiling Water
 - Salt Water
 - Dish Soap Solution
3. Apply each treatment:
 - Control: Spray with plain water.
 - Other pots: Spray or pour the assigned treatment evenly over the weeds until leaves are wet.
4. Apply treatments once a day for 3 days.
5. Observe your weeds for 7 days.
6. Record your observations in the data table below each day at the same time.
7. Take a photo each day (optional).



SAFETY

- Do not touch your eyes or mouth while working.
- Wash your hands after the experiment.
- Be careful when using boiling water.
- Work in a well-ventilated area.



DATA TABLE

Rate the condition of the weeds each day using the scale below.

0 = No effect 1 = Slight effect 2 = Moderate effect 3 = Strong effect 4 = Plants dead

Treatment	Day 1	Day 2	Day 3	Day 4	Day 5	Day 6	Day 7	Notes (observations, changes)
Control (Water Only)								
White Vinegar								
Boiling Water								
Salt Water								
Dish Soap Solution								



ANALYSIS

1. Which treatment was the most effective? Why do you think so?

2. Which treatment was the least effective?

3. What did you learn from this experiment?



CONCLUSION

Write a conclusion that answers your question.
