

Materials

- 1 small bag of potting soil
- 2 two-liter soda bottles with the tops cut off
- 2 Dixie cups with seeds already germinated (just sprouted)
- 2 plastic medicine cups
- 20 mL baking soda
- 30 mL white vinegar
- Graduated cylinder
- 2 Thermometers
- Ruler

Procedure

Directions: Read the steps below. Some of them need to be more specific. In the space below each step, write what additional information you will need to complete this test.

Green = All good, no changes needed

Yellow = Be more specific

1. Put **some** soil into **a few** dixie cups.
2. **A bit under** the soil plant **a seed** in each cup.
3. Pour **some** water into to each cup of soil.
4. Tape thermometers **to the soda bottles**.

CONTROL GROUP:

5. Place one dixie cup (with soil & seed) underneath one of the soda bottles that has a thermometer.

6. DRAW your control group below:

EXPERIMENTAL GROUP:

7. Get the other Dixie cup all ready.

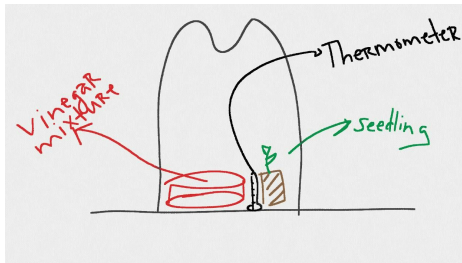
8. Measure a certain amount of baking soda into medicine cup.

9. Measure some white vinegar in your graduated cylinder.

10. Slowly add the vinegar to the cup with the baking soda.

11. Carefully place the other dixie cup (with soil & seed) and the medicine cup with the vinegar mixture under the other soda bottle (with thermometer).

12. The DRAWING of the experimental group is below:



13. Record your observations. Make sure to measure the plant's height with your ruler. Do this on the outside of the bottle, as we do not want to disrupt the system.

14. Make a data table for your data and record your information.