3) Test

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
- 13 mL baking soda
- 30 mL white vinegar
- Graduated cylinder
- 2 Thermometers
- Ruler

Procedure:

- 1. Put 50 mL of soil into 2 dixie cups.
- 2. Plant a pinto bean 1 cm beneath the soil in each cup.
- 3. Pour 10 mL of water into to each cup of soil.
- 4. Tape thermometers to the inside of 2 cut soda bottles (one for the control group, one for the experimental group) so the temperature can be read from the outside.
- 5. CONTROL GROUP: Place one dixie cup (with soil & seed) underneath one of the soda bottles that has a thermometer.
- 6. DRAW your control group below:

- 7. EXPERIMENTAL GROUP: Place the other dixie cup (with soil & seed) underneath the other the soda bottle that has a thermometer.
- 8. Measure 13 mL of baking soda into medicine cup.
- 9. Measure 30 mL 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:
Thermineter Seedling
14. 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.
Day 1:
CONTROL CROUD.
CONTROL GROUP:
Temperature:
Height:
EXPERIMENTAL GROUP:
Temperature:
Height:
15. Make a data table for your data and record your temperature and plant height data every day
for <u>days</u> .