



Science Fair Projects

Pre-K to 2nd Grade

Biology (germination)

“Thirsty Plants”

Purpose

Plants can be a lot like people. When they are out in the hot sun, they get thirsty. So why not give them a drink, too! You could try milk, orange juice, cola, or maybe even lemonade. You might like these drinks, but would a plant? Let's find out.

Materials

4 plastic glasses, 12 bean seeds, potting soil, 4 different liquids (cola, milk, juice, water, etc.), tablespoon, mm ruler, and record page.

Experiment

Put potting soil in 4 plastic cups. Place 3 seeds in each cup and cover them with ½” of soil.

Choose 4 different liquids to add to your seeds and write the name of each on the record page.

Make guesses on the record page showing which plant will grow tallest, shortest, etc.

Label each cup. Add 3 tablespoons of the indicated liquid to each.

Put the cups in a warm, sunny spot. Make sure the soil is kept moist. Record height at the end of 1 week and again at the end of 2 weeks.

Results: Plants get most of the chemicals that they need through their roots. Many of the liquids that you used contain chemicals that the plants did not need. Some of the liquids contained an acid. Acid will slow down the growth of most plants. These plants did not grow as well as the others.