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Energy Drink Power!

The purpose of this investigation was to test if certain types of plants grew faster if energy drink liquid was added to them than if water was added to them. I hypothesized that if energy drinks are related to a plant's growth, then the plant that receives an energy drink will grow taller because energy drinks contain many stimulants that distilled water does not.

The experiment involved setting up six Marigold plants. Two marigold plants were labeled with each of the following: "Energy Drink #2", "Watered Plant #1", and "Control Plant #3". 200 ml of energy drink liquid was added to each of the plants labeled #2 and 200 ml of distilled water was added to plants marked #1. Each of the liquids were added once every 48-hours, for a period of 13-days, while nothing was added to the control. Every 24-hours from the start of the experiment, I measured the height of each of the 6 plants in both trials with a metric cm ruler, and recorded the data in my science fair journal. Each trial contained 3-plants, for a total of 2-trials.

The data collected did support my original hypothesis. For trial #1. The energy drink plant grew on average about 1.42 cm every 48 hours. The watered plant grew an average of about 1.19 cm every 48-hours. While the controlled plant only grew an average of about 0.275 cm every 48-hours.

These findings led me to believe that adding energy drink liquid to Marigold plants causes the plants to grow at a more rapid rate than adding distilled water to the Marigold plants.