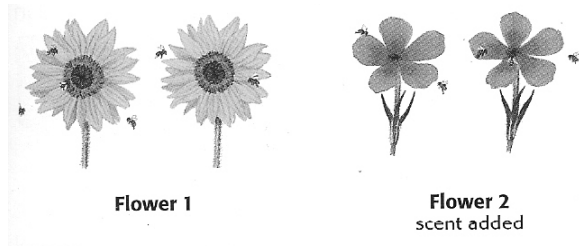


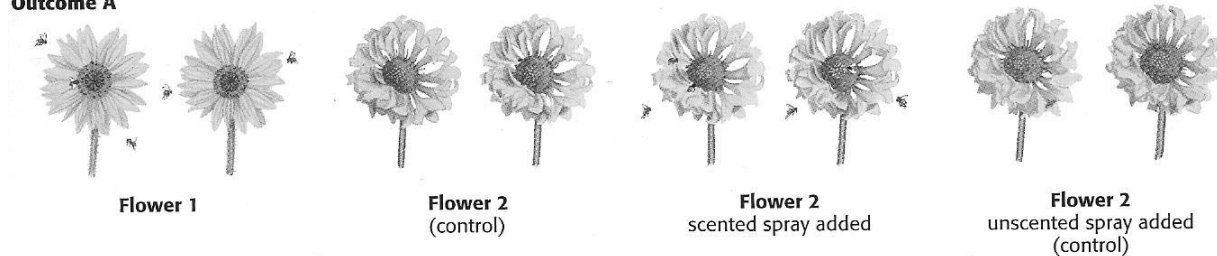
Scientific Method Data Analysis Homework



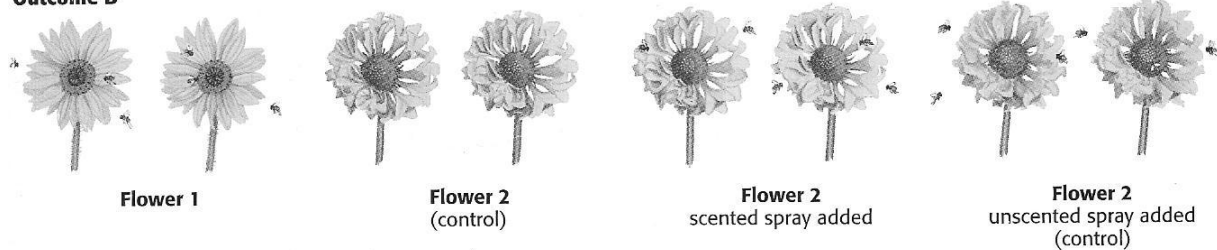
Experiment 1: The scent from flower 1 is added to flower 2. Flower 1 is yellow and flower 2 is red.

Experiment 2: Flower 1 is a pure yellow flower. Flower 2 is yellow with a bit of white. They are both generally the same size and same shape. The scent from flower 1 is added to flower 2. Each outcome below is the same experiment with different results.

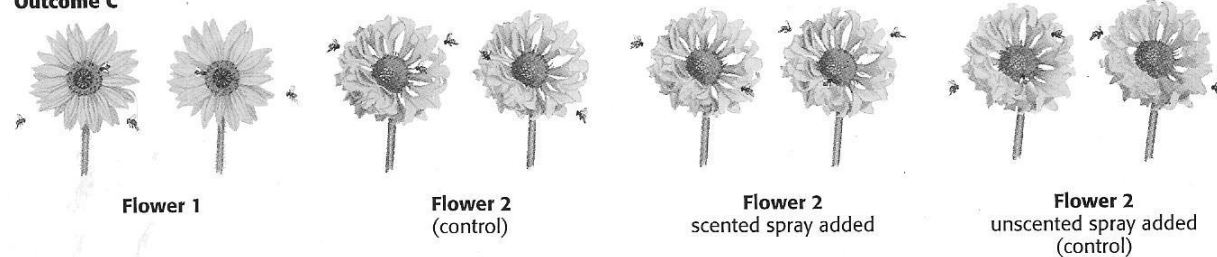
Outcome A



Outcome B



Outcome C



- 1) Compare experiment 1 and 2. What is the independent, dependent, and control variables in experiment 2?
- 2) In experiment 2, the scent-producing substances from Flower 1 are dissolved in water to produce the spray. What is the purpose of the control flowers with nothing sprayed on them?
- 3) What is the purpose of the control flowers sprayed with unscented spray?
- 4) What can you conclude from the results of Outcome A?
- 5) What is a possible hypothesis that matches the results of Outcome A?
- 6) How would results similar to Outcome A with different types of flowers strengthen your conclusion?
- 7) What can you conclude from the results of Outcome B?
- 8) What is a possible hypothesis that matches the results of Outcome B?
- 9) What can you conclude from the results of Outcome C?
- 10) What is a possible hypothesis that matches the results of Outcome C?
- 11) What other variables might be helpful to control in Experiment 2?
- 12) Why would it be useful to repeat the same experiment with more of the same type of flower?