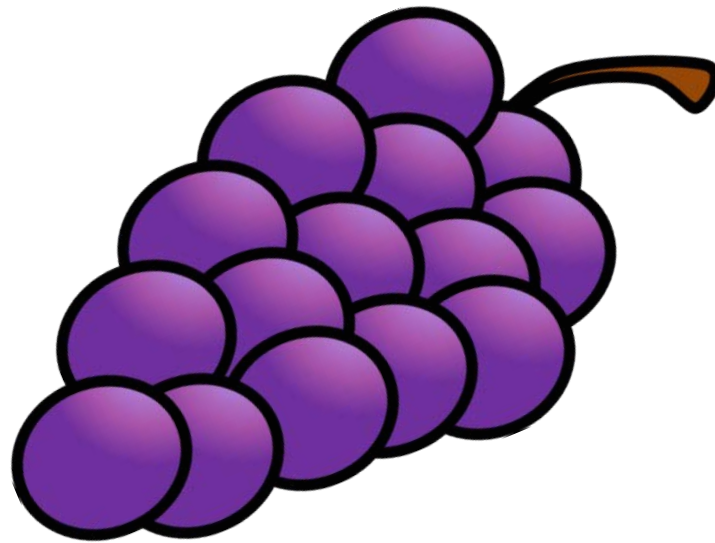


# Using the Scientific Method to Explore Water Density with Grapes

Created by Deirdre Smith of JDaniel4's Mom



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# Grapes and Sugar Water Density Experiment

**Purpose:** You are going learn how to make water dense enough for grapes to float in it.

**Supplies:**

- Grapes
- Sugar
- Water
- Tablespoons
- Plastic Cups

Research says that when you place grapes in a cup of water they will sink to the bottom. Why? They are heavier than the water.

Try it dropping grapes in a cup of water. Share what happens below.

\_\_\_\_\_

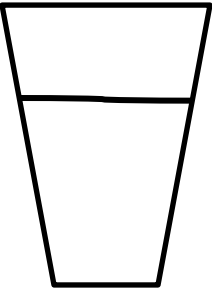
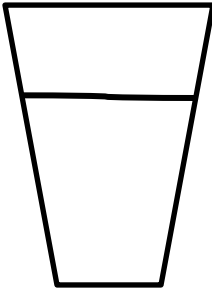
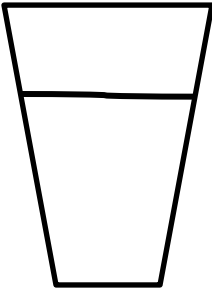
**My hypothesis is** when the water is made heavier the grapes will \_\_\_\_\_

**Experiment:**

- You will need to add a few tablespoons of sugar to water.
- Then you will need to stir the water.
- Next, place a few grapes in the water.
- If the grapes sink to the bottom, add a few more tablespoons of sugar.
- Keep adding sugar and stirring until the grapes float.

**Analysis**

Show where the grapes are in the cup.



Number of Tablespoons of Sugar Added

\_\_\_\_\_

**The conclusions based on the experiment:**

\_\_\_\_\_  
\_\_\_\_\_