

# SUNSHINE

## DAY CAMP

### March Science

#### Sugar Water Density Experiment

Age Range: All Ages

Supplies: 5 Clear glasses or mason jars, warm water, sugar, spoon, food coloring, syringe.

#### Set Up:

Instructions: Fill four glasses with  $\frac{1}{4}$  cup of warm water each. Add sugar and food coloring. Each color will have a different amount of sugar in it.

- Glass 1: Add 1 Tbsp of sugar and 2 drops of red food color. Stir vigorously to completely dissolve the sugar.
- Glass 2: Add 2 Tbsp of sugar and 2 drops of yellow food coloring, stir vigorously.
- Glass 3: Add 3 Tbsp of sugar and 2 drops of green food coloring and stir.
- Glass 4: Add 4 Tbsp of sugar and 2 drops of blue food color and stir.
- Note: Stirring to completely dissolve the sugar is very important; without the sugar fully incorporated into the water, you'll have trouble getting the colors to separate. Heat up your water more if its not working.

Use the syringe to transfer about half of the blue water into the remaining empty glass. This is where you will make your rainbow. Still using the syringe, transfer half of the green water into the rainbow glass. Add it slowly in top of the blue water. It should sit on top. Add the yellow, and then the red. You'll see a beautiful rainbow!



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#### Magic Milk

Age Range: All Ages

Supplies: 2% milk, dawn dish soap, food coloring, Q-tips, shallow dish, pan or cookie sheet.

Set Up: N/A

Instructions: Pour a thin layer of milk into the shallow pan. Add some drops of the food coloring. Dip a Q-tip into the dish soap then dip into the drops of food coloring. Watch the magic! You can do this as a demonstration for the whole group, or gather enough ingredients for each child to do this experiment on their own.



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## Science Curriculum

Child's Name: \_\_\_\_\_

Science Experiment:

My Hypothesis  
(What I think will happen.)

What happened?

Why do I think it happened?