

### Sugar Density Columns

**Task:**

- Create a density column using 4 different colored layers.

**Materials:**

<ul style="list-style-type: none"> <li>• Food Coloring - Red, Blue, Yellow, &amp; Green</li> <li>• Erlenmeyer flask filled with warm tap water</li> <li>• Graduated cylinder</li> <li>• 4 Stirrers/Sticks</li> </ul>	<ul style="list-style-type: none"> <li>• 4 Pipettes</li> <li>• 1 Spoon</li> <li>• Granulated Sugar</li> <li>• 3 Test Tubes</li> <li>• Test Tube Rack</li> <li>• 4 Clear Cups</li> </ul>
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**Parameters:**

1. Use proper lab procedures
2. Avoid cross contamination of colors
3. Each cup will need 60 mL of warm tap water
4. Add 2-3 drops of food coloring per cup
5. Determine how much sugar to add to each color
6. Choose the order of the colors
7. Add sugar solutions slowly down the side of the test tube using the pipettes
8. Record your data in the table below



**Data:** Sugar Content of Each Cup

Layers	Trial 1		Trial 2		Trial 3	
	Color	Sugar # tsp	Color	Sugar # tsp	Color	Sugar # tsp
<b>Top</b>						
<b>2nd</b>						
<b>3rd</b>						
<b>Bottom</b>						

Name \_\_\_\_\_ Class \_\_\_\_\_ Date \_\_\_\_\_

## Sugar Density Columns

### Observations and Notes:

**Trial 1:**

**Trial 2:**

**Trial 3:**

### Reflection:

Write 2 -3 paragraphs describing how you and your group tackled this problem, the steps you took, any challenges you faced, and your final outcome.