**Density Demo Lab**

**Hypothesis**:   
  
If you pour vegetable oil, honey, dish soap, and water in a beaker then \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will form the topmost layer and \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ will form the bottom layer because each liquid has a different \_\_\_\_\_\_\_\_\_\_\_\_\_\_.

**Data**:

Draw your observations:

**Questions**:

1. Why do the liquids in this system float on top of each other in the order that they do?

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2. What is density? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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3. Which liquid do you think is the densest? Which is the least dense? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

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

4. What is the relationship between the density of a liquid and its position in the beaker?

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**Conclusion:**

1. Was your hypothesis correct? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_
2. Explain briefly how you came up with your hypothesis. Make corrections to your original hypothesis, explaining your misconceptions (if any).   
     
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3. What would happen if you were to stir the liquids inside the beaker?   
     
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