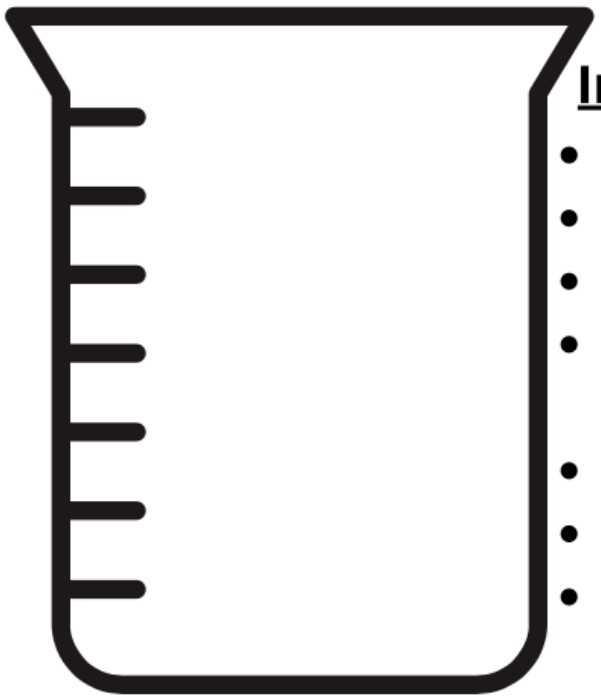
Student Name _____ **Date**_____

Predict the sequence in which the liquids should be poured to achieve the creation of seven distinct layers.



List of Ingredients

- **Dish soap**
- **Honey**
- **Vegetable oil**
- **Isopropyl alcohol 99%,**
- **Water**
- **Lamp oil**
- **Corn syrup**

Why do you think the liquids should be poured in the order you predicted?

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_____

Record what you see happing during the experiment, and any more predictions you might have.

1. Was your prediction correct? Why or why not?

2. Why is it important to consider the density of liquids when attempting to create layered formations?

3. Imagine you have three liquids with varying densities. How might you experiment to find the most stable arrangement for layering them?

4. Predict what would happen if a marble was dropped in? Why?

5. Predict what would happen if a ping-pong ball was dropped in? Why?

6. Can you provide examples of everyday situations where understanding the density of liquids is important for practical purposes?