**Liquid Layers Lab**

**Objective:** To determine if the order you add liquids to a container affects how they form layers according to their densities.

**Materials:**

* Liquid A
* Liquid B
* Liquid C
* 3 graduated cylinders (10- or 25-mL)
* 3 funnels
* Beaker or other clear container

**Make a Prediction:**

You know that liquids form layers according to their densities. Does the order in which you add different liquids to a container change the order of the layers they will form? \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

**Procedure:**

1. Measure 10 mL of liquid A, liquid B, and liquid C. Pour each liquid through a funnel into one of the graduated cylinders. Remember to read the volume at eye level, and read the bottom of the meniscus.
2. Add all three of the liquids to the beaker. Record the order in which you added the liquids:

1.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

2.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

3.\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_

1. Observe the liquids in the container. Draw what you see in the space below. Label the layers and add the colors.
2. Use the same graduated cylinder as before to measure 10 mL more of liquid C. Pour it into the beaker. Observe what happens and write your observations below.

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1. Use the same graduated cylinder as before to measure 5 mL more of liquid A. Pour it into the beaker. Observe what happens and write your observations below.

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**Questions**

1. Which liquid has the greatest density?
2. Which liquid has the least density?
3. Did the layers change their position when you added more of liquid C? Explain your answer.
4. Did the layers change their position when you added more of liquid A? Explain your answer.

**Conclusion**

1. Based on your results, was your prediction correct? Why or why not?