



Name: \_\_\_\_\_

**Density Data Table**

Liquid	Layer Prediction	Volume	Mass	Density	Layering Order
<b>A</b> Water with green food coloring					
<b>B</b> Vegetable Oil					
<b>C</b> Liquid Soap					
<b>D</b> Corn syrup with purple food coloring					
<b>E</b> Rubbing alcohol with red food coloring					

10. What is the relationship between a liquid's density and its order of layering?

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11. In this activity, you used nearly equal volumes of each liquid (about 15 mL of each). What do you think would happen if you used different volumes? For example, if you used 30 mL of liquid B and only 10 mL of liquid A?

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12. Try this in a different graduated cylinder. Measure 10 mL of liquid A and add it 30 mL of liquid B. What happened? Use your knowledge of density to explain why.

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**13. Dispose of the liquids in the layered graduated cylinders by pouring them into the designated container. Use the brush to clean out your graduated cylinder and wipe down your table.**