Experiment 6:	Mix it up!	Date:	
Objective:			
Hypothesis:			

Materials:

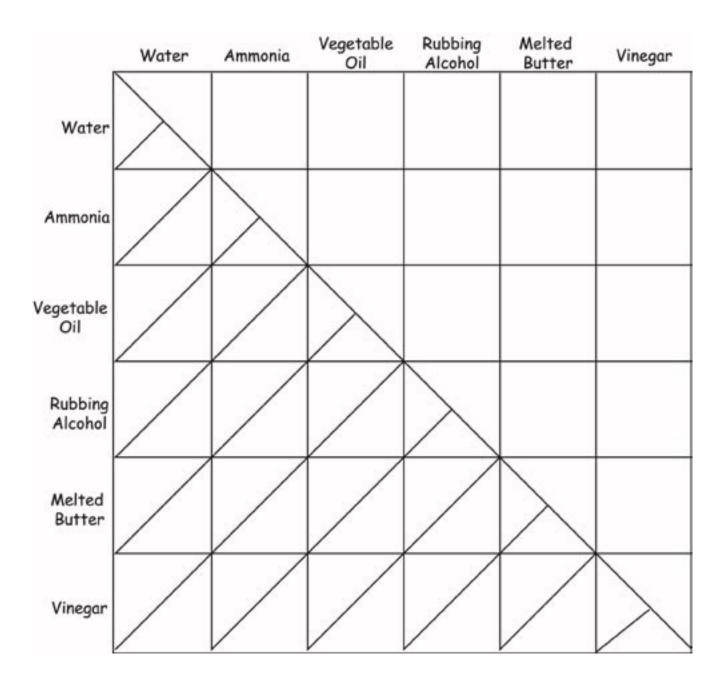
vinegar
rubbing alcohol
ammonia
vegetable oil
melted butter
several small jars
food coloring
dish soap

Experiment:

Part I: See what mixes.

- 1. The grid in the Results section is labeled with the following items: water, vinegar, rubbing alcohol, ammonia, vegetable oil, melted butter, along the top and sides of the grid.
- 2. Take out 6 small jars and add 1/4 cup of each item to each jar. Label the jars.
- 3. Add a drop of food coloring to each jar.
- 4. Mix one tablespoon of the uncolored items with 1 tablespoon of each colored item. Record in the boxes if the two items mix.

Results:



Part I	I: Soap	, oil and	water
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- 1. Put 1/4 cup of water into one of the small glass jars. Add one drop of food coloring.
- 2. Add 1 tablespoon of vegetable oil to the water.
- 3. Mix the water and oil. Record your results.
- 4. Add 1 tablespoon of liquid dish soap to the oil/water mixture.
- 5. Mix thoroughly. Record your results.
- 6. Add another tablespoon of liquid dish soap to the mixture, and mix thoroughly.
- 7. Record your results.

Results:

Oil + water:		
Oil + water + 1T soap:		
Oil + water + 2T soap:		

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Conclusions:

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<u> </u>	Define	the	fol	lowing	terms:
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	mixture
	homogeneous
	heterogeneous
	dissolve
Ans	wer the following questions:
Wha	at does the term "like dissolves like" mean?
Nam	e two molecules with charged ends
Nam	e two molecules without charged ends
How	does soap work?

Draw a micelle.