Grade 7 Science Unit 3: Mixtures and Solutions CORE LAB 2



Name:	<u> </u>			
Partners:				
Problem: Are all solutes equally solu	ble in all solvents?	?		
Materials:				
4 cups measuring spoons	water 4 Popsicle sticks	salt vegetable oil flour		
Procedure:				
1. Copy the table of observations below into your science notebook. Give your table a title				
2. Label the four cups 1, 2, 3, an	d 4.			
3. Use a measuring spoon to pour and 2. Pour about 2 ml of ve		vater (about half a teaspoon) into cups 1 ps 3 and 4.		
4. Record the solvent in your tab	ole.			
Predict whether each of the two solutes (salt and flour) will dissolve in one, both, or neither of the solvents. Record your predictions.				
	Using the stir sticks, add a little salt to cups 1 and 3 and a little flour to cups 2 and 4. Record the names of the solutes in your table.			
	Stir each mixture. Observe the contents of each container to see if the solutes have dissolved. Record your observations in your table.			
12. Clean up and put away the equipment you have used.				
Hypothesis: Will each solute dissolve	e in water, oil or be	oth?		
Solute		Will Dissolve in?		

Title: Container Name of Solvent Name of Solute Observation (Solubility) 1	
(Solubility	
1	
2	
3	
4	
1. Were your predictions correct? Explain	
 Predict what would happen if you used ethanol (a type of alcohol) as a third solut reasons for your prediction. 	e. Give
Conclusion: What did you learn about the solubility of different solutes in different solvents?	