Chapter 6 Pre-test Practice Sheet Student

Sheet	Student	Name:	Date:

- 1. What is the difference between a pure substance and a mixture? Give two examples of each?
- 2. What is the difference between an element and a compound? Give 2 examples of each.
- 3. Identify each of the following as a mechanical mixture(MM), a suspension(Sus), or a solution(Sol). Also, explain why made made your decision.

		MM, Sus or Sol	Explain your reasoning for your decision.
а	Granola		
b	Orange Juice		
С	Tap Water		
d	A Toonie		
е	Farm-fresh Milk		
f	Homogenized Milk		
g	Concrete		
h	Clear apple juice		
i	Hand lotion		
j	Cereal and Milk		

4. Describe how you would separate the parts of each mixture. What property of matter makes the separation method work? Explain. a) Separating sand and salt. b) Separating dust in a fluffy blanket c) Separating sawdust and sand d) Separating pebbles and sand e) Separating flour and water 5. Read the following statements. Rewrite any statements that are incorrect to make them correct. a. If a solution is saturated at 20°C, it will also be saturated at 25°C. b. When some solvent evaporates, a solution becomes more saturated. c. When a saturated solution is cooled, some crystals begin to appear in the solution. The solution is now unsaturated. d. A solvent is a liquid that dissolves sugar. e. A solute is always a solid. f. Oil is insoluble.





a)	Acidicsolutions that are pH:						
b)	Most acidicsolutions that are pH:						
c)	Neutralsolutions that are pH:						
d)	Basicsolutions that are pH:						
e)	Sour tastingsolutions that are pH:						
f)	Most helpful in breaking down oils and fatssolutions that are pH:						
7. Mixtures and compounds both contain two or more elements. How do mixtures differ from compounds?							
8. Screens and filters work in the same way. The screens on your windows and doors separate insects(such as flies and mosquitoes) from the air. In the following table, identify what is let through the following filters and what is held back.(One has been done for you)							
Screen or filter		What gets through this filter?	What is held back?				
Window screen							
Coffee filter in coffee machine		Water with dissolved coffee	Coffee grounds				
Furnace filter							
Dryer lint screen							
9. Imagine that you have spilled a whole bottle of expensive perfumed oil into a bath. What steps could you take to recover as much of the oil as possible?							

10. How could you use a flashlight to distinguish between a solution and a suspension?

6. Five solutions have pH values of 3,5,7,9, and 11. List which solution(s) that are:

	Liquids in Home	Is it a Solution?(yes or no)	Solvent and Solute.
	Fruit juice such as 5 Alive		
	Bottled water		
	Kool-Aid		
	Vinegar		
	Tea		
	Bathroom spray cleaner		
	Salad dressing		
	Milk		
	Using what you know about s takes to dissolve in a drink. E	•	ou could shorten the time a sugar cube
14.	Oil spills that occur near shore properties of oil and a deterge		ne help of powerful detergents. What
15.	Is ocean water a saturated or	unsaturated saltwater solution?	