Grade 7 Science Unit Review for Pure Substances and Mixtures

Name:	Class:	Date
Review your notes and use the inter	net to find the	e answers to the unit review questions.
What is Matter?		
What is the basic structure of all ato	oms?	
List the 5 main ideas of the particle a)	theory.	
b)		
c)		
d)		
e)		
What are the 3 states of matter? Con	mpare and co	ntrast them.
What are the main differences betw	een particles	of a solid and the particles of a gas?
What is a pure substance?		

3. Complete 4. In tea a 5. dissolve Match eac	cooling a solvent is a government of sentence given be and coffee, the solvent	ood way to ince	"can be used to describe the amount of crease the solubility of a solute. _are two ways to make a solid
Complete 4. In tea a 5 dissolve Match eac 6 7 8.	each sentence given bond coffee,the solvention	elow. is	·
4. In tea a 5668.	nd coffee,the solventi	is	
4. In tea a 5668.	nd coffee,the solventi	is	
5668.	and _		
dissolve Match each678.	in a liquid more quicl	kly.	are two ways to make a sond
Match eac 6. 7. 8.	in a fiquid more quies	Kiy.	
8.	ch term in the left colu soluble		efinition from the right column.
	saturated	(b) able	to dissolve in a solvent
Circle the	solute	(c) unat	ble to dissolve any more solute
Chere the	letter beside the answ	ver that heet a	nswers the question
			gh water to make 25 mL of solution. W
(a) Th			
(b) Th	e sugar	(c) Th	ne salt

10.	A scientist wants to decrease the rate at which a solid dissolves in a liquid. What should she do?				
	(a) Cool the liquid.(b) Stir the mixture.	(c) Increasethe volume of the liquid.(d) Breakthe solid into smallerpieces.			
11.	final volume is only 170mL.	nk power in 150mL of water. She is surprised that the Why do think Holly is surprised at the final volume explain Holly's observation.			
12.		substance in 50 mL of water to make a saturated by more solute in the solution? Explain.			
13.	is higher than the concentration	utes in a single solvent. The concentration of solute A ion of solute B. Draw a picture showing the particles of olvent in the solution. Make sure to label your picture.			

14.	What is a mechanical Mixture? How is it different than a solution?
	When an ice cube melts, do the particles change to a different kind of particle? Explain why or why not.
16.	How is the purity of gold measured? Why is gold jewelry not pure gold?
17.	Sewage is a stinky, messy mixture of many things but, it is turned into water that we can drink. How?
18.	Is Fresh Spring water a pure substance or a mixture? Explain.