Student Name:		Date:	_Per		
Directions: Answer all open-ended questions in complete sentences, using evidence to support your answers. For math questions, show all of your work and include appropriate units and significant figures in your final answer to receive FULL credit.					
	Review how we defined chemical change in Chapt mentioned in this chapter are indicators of chemical				
	If a piece of blackboard chalk is heated strongly, the substantially, and the chalk is converted into a fine chemical reaction having taken place when the characteristic characteristic characteristic characteristic characteristic characteristics.	powder. What evide			
	If you have had a clogged sink drain at your home commercial drain cleaner to dissolve the clog. What cleaners work by chemical reaction?	• •	-		
	If a bottle of aspirin is left open to the air, eventuall (vinegar is a mixture of acetic acid and water). Is the represents a chemical reaction?	•			

Student Name:		Date:	_Per
5.	Distinguish between a chemical reaction and a ch	emical equation.	
6.	Explain the difference between reactants and produced in the difference between reactants and difference be	ducts. Write a generio	c equation.
7.	What do the arrows and coefficients in equations	communicate?	
8.	Does a conversion of a substance into a new substan	stance always indica	te that a chemical
9.	List four observations that indicate that a chemica	l reaction may be tal	king place.

Student Name:	Date:	Per
10. List the three requirements for a correctly was	vritten chemical equation.	
11. What four guidelines are useful in balancin	g an equation?	
12. Give the names and formulas of the 7 diate	omics.	
13. Create a list of the symbols used in a chen	nical reaction.	
14. Explain why it is important that a chemical	equation be balanced.	

Student Name:	Date:	Per
15. Compare and contrast a skeleton equation and a	chemical equat	tion.
16. Explain why it is important to reduce coefficients i	in a halanced e	guation to the
lowest-possible whole-number ratio.	ir a balanced ex	quation to the
17. When balancing a chemical equation, can you ad	just the subscri	pt in a formula? Explain.