2.4

CHEMICAL REACTIONS

Section Review

Objectives

- Describe what happens during a chemical change
- Identify four possible clues that a chemical change has taken place
- Apply the law of conservation of mass to chemical reactions

Vocabulary

- chemical property
- chemical reaction
- reactant

- product
- precipitate
- law of conservation of mass

Part A Completion

Use this completion exercise to check your understanding of the concepts and terms that are introduced in this section. Each blank can be completed with a term, short phrase, or number.

Substances change into new substances during a(n)1	1
reaction. A change in which the properties of a substance change,	2
but not its composition, is a2 change. If the composition	3
changes, then a3 change has occurred. The only way to be	4
sure a4 change has occurred is to test the5	5
composition of a sample before and after a change. The law of	6
6 states that mass is conserved in any physical change	7
or chemical reaction. In other words,7 is neither created	
nor destroyed.	

Part B True-False

Classify each of these statements as always true, AT; sometimes true, ST; or never true, NT.

 9.	A physical	change is	reversible

10. In a chemical reaction,	reactants are	e changed into	products.
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	11.	The amount of a	matter presen	t appears to	change	during a	chemical	reaction.
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Nan	ne	Date	Class
	12. Matter can be created o	during a chemical reaction.	
	13. The substances formed		
Pa	rt C Matching		
Mat	ch each description in Column B	to the correct term in Colun	nn A.
	Column A	Column B	
	14. chemical reaction	a. solid that forms ar	nd settles out of a liquid mixture
	15. reactants	b. starting substance	es in a chemical reaction
	16. product	c. ability of a substar	nce to undergo a specific chemical
	17. chemical property	d. substance formed	in a chemical reaction
	18. precipitate	e. process in which one or more new s	one or more substances change into substances
Pa	rt D Questions and P	roblems	
Ansı	ver the following questions in the	space provided.	
19.	When 400 grams of wood are but to the missing 370 grams of mat		in. What happened
20.	Some car batteries give off a pot change is taking place in the bat		of gases. What kind of

21. When 16 grams of methane gas combine with 64 grams of oxygen, 44 grams of

carbon dioxide form, plus water. What mass of water is produced?