Test Date:	

1.	In the cl	hemical equation $Mg + Br_2 \rightarrow MgBr_2$, the substances Mg and Br_2 on the left side of the arrow	
	are referred to as the		
	a)	The 2 in the above chemical equation is referred to as a(n)	
	b)	What type of chemical reaction is shown by the equation above?	
2.	In the cl	hemical equation $2AlCl_3 \rightarrow 2Al + 3Cl_2$, the substances 2Al and Cl_2 , on the right side of the	
	arrow a	re referred to as the	
	a)	The 3 in front of the Cl_2 in the above chemical equation is referred to as $a(n)$	·
	b)	What type of chemical reaction is shown by the equation above?	
3.	In the e	quation $2H_2(g) + O_2(g) \rightarrow 2H_2O(l)$, what is produced and how many molecules of that substa	nce are
	produce	d?	
	a)	In the above chemical equation, what does the <i>(g)</i> represent?	
	b)	In the above chemical equation, what does the <i>(l)</i> represent?	_
4.	If heat r	nust be added to a chemical reaction for the reaction to take place, the reaction is	
5.	When o	ne element replaces another element in a compound, the reaction is a	reaction.
6.	A subst	ance that speeds up a chemical reaction is a(n)	
7.	The bre	aking down of a substance into 2 or more simpler substances is	
8.	Substan	ces that prevent, or slow down, chemical reactions are called	

9. A chemical reaction in which heat energy is released is ______.
10. What does the arrow → in a chemical equation represent? _______

11. Changes that take place during a chemical reaction are shown in a ______.

12. Balance the equation NaNO₃ + MgCl₂ \rightarrow NaCl + Mg(NO₃)₂.

- a) What type of reaction is this?
- b) What is/are the products?
- c) What is/are the reactants?
- 13. Balance the equation $P_4 + Cl_2 \rightarrow PCl_3$.
 - a) What type of reaction is this?
 - b) What is/are the products?
 - c) What is/are the reactants?
- 14. According to the law of conservation of mass, how does the mass of the products in a chemical reaction compare to the mass of the reactants?
- 15. According to the law of conservation of mass, if six atoms of oxygen are used as a reactant, how many atoms of oxygen must be part of the product?
- 16. When they come in contact, zinc and hydrochloric acid react to produce hydrogen gas and zinc chloride. If the combined mass of the reactants, zinc and hydrochloric acid is 10 grams, what would be the combined mass of the products, hydrogen gas and zinc chloride?
- 17. Each of the diagrams at the right represents a different type of reaction. (Match)
 - ____ Synthesis
 - ____ Decomposition
 - _____ Single Replacement
 - ____ Double Replacement

