Name:		Test Date: <u>Wednesday, December 18</u>				
	Test Review	w: Chapter 19 & 20: Bon	ding and Equations			
1. What are vale	nce electrons?					
3. An ion with a	negative charge	: = An ion	with a positive charg	e=		
5. Name 2 characteristics of an Ionic Bond						
1)						
2)				 		
6. Name 2 characteristics of a Covalent Bond						
1)						
7. Complete the chart						
Elements	Ionic or Covalent	Bonding Dot Model	Chemical Name	Chemical Formula		
Lithium &						
Oxygen						
Hydrogen &						
Sulfur						
Calcium &						
Chlorine						
Oxygen &						
Fluorine						
		and names, using symbols o	·	cross method)		
Sodium ar	nd Bromine					
Carbon an	d Fluorine		 			
Aluminum	and Oxygen					
9 Tdentify as n	hysical (P) or ch	nemical reaction (C):				
 Identify as physical (P) or cl freezing water 		bending clay	water evaporating on a hot day			
decaying wood		burning paper	CaCl ₂ reacting with vinegar			
grinding rocks		rusting metal	digestion of food			

11. Identify the following	lowing reactions as e	endothermic (Endo) or ex	xothermic (Exo)		
gives o	off energy _	Absorbs energy	fireworks		
feels hot		Feels cold	cold packs		
** Know which exper	riments from the re	action labs (pg 44) were	endothermic and exothermic.**		
12. In the following	reaction, label reac	tants, products, coeffic	ients and subscripts		
	2H ₂ + O ₂ =	2H₂O			
13. Count atoms in t	he following chemic	al formulas:			
H ₂ CO ₃	3BrPO ₄	3Ca(NO ₃) ₂	2Al ₂ (SO) ₃		
14. Answer the following for this chemical formula. $2C_6H_{12}O_6$ Number of Elements involved: Number of Atoms per element: Number of Molecules of $C_6H_{12}O_6$:					
Number of Mi	orecures of C61 112O6	·			
15. Balance the follo	owing equations: NaCl + Br2	4P +	$O_2 \rightarrow P_2O_5$		
16. The Law of Conse	ervation of Mass sto	ates that matter can nei	ther be nor		
17. If your reactant Mass states that yo	_	_	e B, the Law of Conservation of		
18. Does the following equation meet the Law of Conservation of Mass? Show your work. $2KCIO_3 \rightarrow 2KCI + 3O_2$					

10. List the 5 signs that a chemical change/reaction has occurred.