	rget: translate descriptions of chemical reactions to word equations and write correct leton (formula) equations. (Skill)
<i>1) 2)</i>	Use symbols and names of reactants and products to write the word equation for each chemical reaction - include states of matter. (See reminders below.) a. metals and ionic compounds are solids at room temperature. b. hydrogen ,oxygen, nitrogen, and carbon dioxide are gases. c. water is liquid but will exist as vapor (gas) at high temperatures. d. all solutions in this unit will be aqueous (aq) Write the skeleton (formula) equation. a. formulas for acids are on the back of your gold periodic table. b. hydrogen, oxygen, nitrogen and the elements in Group 17 are diatomic (H ₂ , Cl ₂ , etc) c. be sure to identify ions before trying to write the formula for ionic compounds – formulas must have a neutral charge.
1.	Aqueous hydrogen peroxide breaks down into water vapor and oxygen gas.
ra e	ruation
	equation
eletor	
2.	equation Solid silver chloride and an aqueous solution of nitric acid are produced when a solution
2.	Solid silver chloride and an aqueous solution of nitric acid are produced when a solution ilver nitrate is reacted with a solution of hydrochloric acid.

ACh (Skill) Name ______ Hr. _____

sulfate is formed.
word equation
skeleton equation
4. The fluoride in many toothpastes is tin(II) fluoride produced by the reaction of tin and
gaseous hydrogen fluoride.
word equation
skeleton equation
5. Glass is often etched to provide a design. In this process the calcium silicate found in
glass reacts with aqueous hydrofluoric acid to produce aqueous calcium fluoride, silicon
tetrafluoride gas and liquid water.
word equation
skeleton equation

3. When zinc is reacted with a solution of copper (II) sulfate, copper and a solution of zinc

solution of sodium chloride and water is produced.				
word equation				
skeleton equation				
7. Gold (III) oxid and oxygen gas.	le decomposes completely at high temperatures to produce metallic gold			
word equation				
skeleton equation				
the correct name f	e following chemical formulas, determine if it is ionic or covalent and write for the compound represented.			
a) N ₂ O				
b) CuCO ₃				
c) Cs ₃ P				
d) FeCO ₃				
e) MgSO ₄				
f) CaO				

6. When an aqueous solution of hydrochloric acid is mixed with sodium hydroxide a

g) K ₂ S		
h) SiCl ₄		
i) NH ₄ Br		
		ermine if it is ionic or covalent and write the e the ions before writing an ionic formula.
K ⁺ I ⁻ a) potassium iodide	Ionic	KI
b) dinitrogen pentachloride		
c) copper (II) carbonate		
d) magnesium nitrate		
e) barium nitride		
f) sulfur trioxide		
g) magnesium chloride		
h) tin (II) hydroxide		
i) oxygen difluoride		
j) silver chloride		
k) carbon monoxide		
l) dihydrogen monoxide		