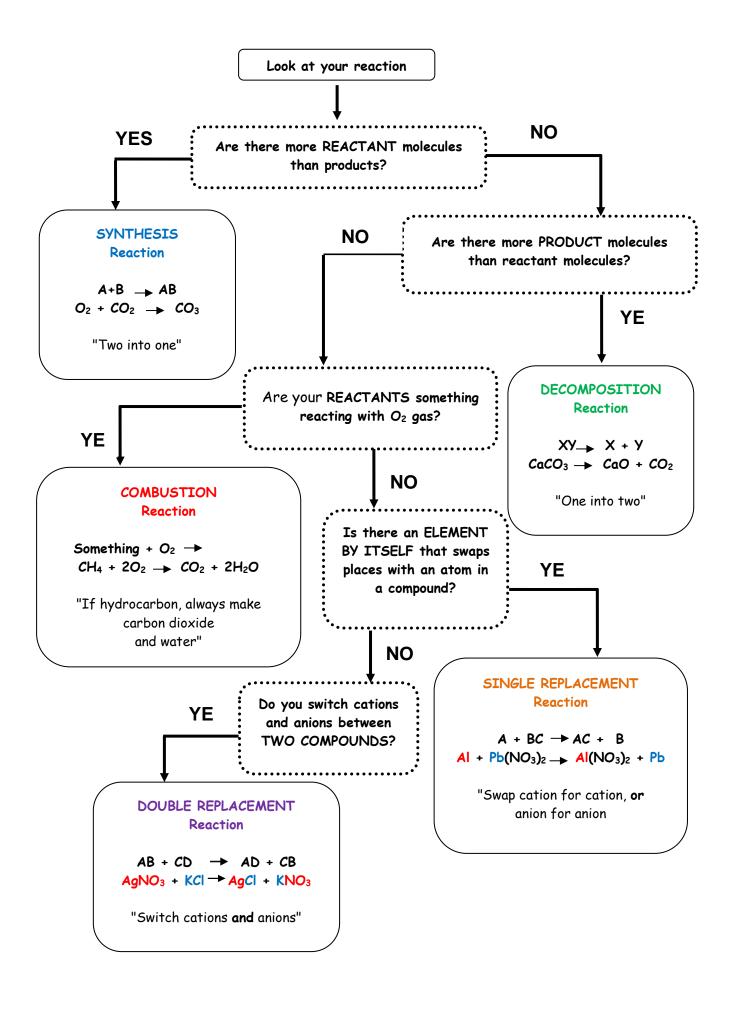
Reference Sheets for Unit #6 – Reactions



Activity Series Chart

Metals Non-Metals

Most	<u>Name</u>	<u>Symbol</u>	<u>Name</u>	<u>Symbol</u>
Most Active Least Active	Lithium Potassium Barium Strontium Calcium Sodium Magnesium Aluminum Manganese Zinc Iron Cadmium Cobalt	Li K Ba Sr Ca Hydrogen in a water molecule Mg AI Mn Zn Fe Cd Cd Co Lithium through Sodium can replace a Hydrogen in a water molecule Magnesium the can replace a in an acid mole	Hydrogen	F CI Br I
	Nickel Tin Lead Hydrogen Copper Silver Mercury Gold	Ni Sn Pb H Cu Ag Hg Au		

Elements CANNOT replace anything ABOVE them. The reaction DOES NOT OCCUR in this situation.

Examples: ZnCl₂ + Mg → MgCl₂

Magnesium is above Zinc so the reaction happens

ZnCl₂ + Cu → No Reaction

Copper is below Zinc so no reaction happens

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Always Soluble	<u>2</u>			
Alkali metals =	Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺			
Ammonium =	NH_4^+	AAA		
Acetate =	$C_2H_3O_2$ -	CNP		
Chlorate =	CIO ₃ ⁻			
Nitrate =	NO_3^-			
Perchlorate =	CIO ₄ ⁻			
Generally Solu	<u>ble</u>			
Cl⁻, Br⁻⁻, l⁻	Soluble <u>except</u> : Ag+, Pb ²⁺ , Hg ₂ ²⁺	AP-H		
F ⁻	Soluble <u>except</u> : Ca ²⁺ , Ba ²⁺ , Sr ²⁺ , Pb ²⁺ , Mg ²⁺	CBS-PM		
Sulfate = SO ₄ ²⁻	Soluble <u>except</u> : Ca ²⁺ , Ba ²⁺ , Sr ²⁺ , Pb ²⁺	CBS-P		
Generally Insoluble				
O ²⁻ , OH ⁻	Insoluble <u>except</u> : Alkali metals and NH ₄ +	AA		
	Somewhat soluble: Ca ²⁺ , Ba ²⁺ , Sr ²⁺	CBS		
CO ₃ ²⁻				
S ²⁻ , SO ₃ ²⁻	Insoluble except. Alkali metals and NH4+	AA		
PO ₄ ³⁻				
CrO ₄ ²⁻ , Cr ₂ O ₄ ²⁻				