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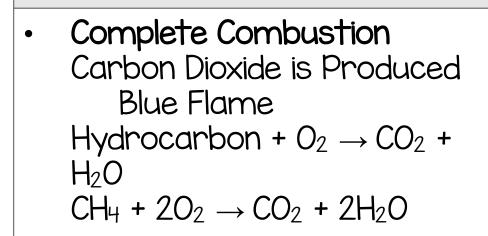
• Diatomic Elements $N_{2,} O_{2,} F_{2,} Cl_{2,} Br_{2,} I_{2,} \& H_2$

 Common Polyatomic Ions OH⁻ (hydroxide) NO₃^{I-} (nitrate) CO₃²⁻ (carbonate) CrO₄²⁻ (chromate) SO₄²⁻ (sulfate) PO₄³⁻ (phosphate) NH₄^{I+} (ammonium)

Common Charges

1	2	13	14	15	16	17	18
Li⁺				N ³⁻	O ²⁻	F⁻	
Na+	Mg ²	Al ³⁺		P ³⁻	S ²⁻	Cl-	
K+	Ca ²⁺				Se ²⁻	Br⁻	
Rb⁺	Sr ²⁺					l-	
Cs ⁺	Ba ²⁺						

EXTRAS



• Incomplete Combustion Carbon Monoxide is Produced Yellow Flame Hydrocarbon + $O_2 \rightarrow CO + H_2O$ 2CH₄ + $3O_2 \rightarrow 2CO + 4H_2O$



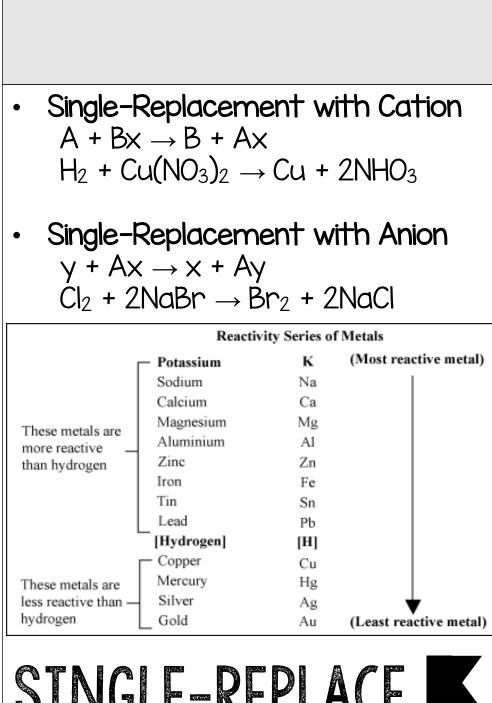
COMBUSTION

 Also Called Meta 	athesis
• Double Replacer $Ax + By \rightarrow Ay +$ • A & B are Co • x & y are Ar BaCl ₂ + 2NaBr -	· Bx ations nions
Soluble Compounds (aqueous)	Insoluble Exceptions (solids/gases)
Compounds containing alkali metal ions (Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺) and the ammonium ion (NH4 ⁺)	

 x & y are Anions
$BaCl_2 + 2NaBr \rightarrow 2NaCl + BaBr_2$

Soluble Compounds (aqueous)	Insoluble Exceptions (solids/gases)		
Compounds containing alkali metal ions (Li ⁺ , Na ⁺ , K ⁺ , Rb ⁺ , Cs ⁺) and the ammonium ion (NH ₄ ⁺)			
Nitrates (NO3 ⁻), bicarbonates (HCO3 ⁻), and chlorates (ClO3 ⁻)			
Halides (Cl ¹⁻ , Br ¹⁻ , l ¹⁻)	Halides of Ag^+ , Hg_2^{2+} , and Pb^{2+}		
Sulfates (SO4 ²⁻)	Sulfates of Ag ⁺ , Ca ²⁺ , Sr ²⁺ , Ba ²⁺ , Hg ₂ ²⁺ , and Pb ²⁺		
Insoluble (solids/gases)	Soluble Exceptions (aqueous)		
Carbonates (CO_3^{2-}), phosphates (PO_4^{3-}), chromates (CrO_4^{2-}), and sulfides (S^{2-})	Compounds containing alkali metal ions (Column 1 Elements)		
Hydroxides (OH ¹⁻)	Compounds containing alkali metal ions (Column 1 Elements) and the Ba ²⁺ ion		

DOUBLE-REPLACE

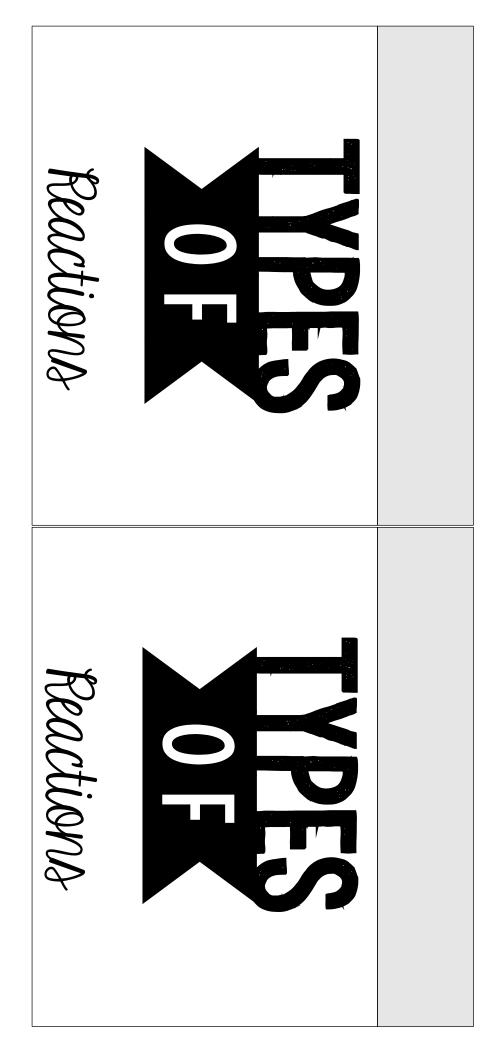


SINGLE-REPLACE

• Acid Acid \rightarrow Nonmetal Oxide + H ₂ O H ₂ CO ₃ \rightarrow CO ₂ + H ₂ O	• Metal Chlorate Metal ClO ₃ \rightarrow Metal Chloride + O ₂ Mg(ClO ₃) ₂ \rightarrow MgCl ₂ + O ₂	• Metal Hydroxide Metal OH \rightarrow Metal Oxide + H ₂ O Mg(OH) ₂ \rightarrow MgO + H ₂ O	 Metal Carbonate Metal CO₃ → Metal Oxide + CO₂ MgCO₃ → MgO + CO₂ 	• Binary Compound $AX \rightarrow A + X$ $2MgO \rightarrow 2Mg + O_2$	
Acid Acid \rightarrow Nonmetal Oxide + H ₂ O H ₂ CO ₃ \rightarrow CO ₂ + H ₂ O	Metal Chlorate Metal ClO ₃ \rightarrow Metal Chloride + O ₂ Mg(ClO ₃) ₂ \rightarrow MgCl ₂ + O ₂	Metal Hydroxide Metal OH \rightarrow Metal Oxide + H ₂ O Mg(OH) ₂ \rightarrow MgO + H ₂ O	Metal Carbonate Metal $CO_3 \rightarrow Metal Oxide + CO_2$ MgCO ₃ $\rightarrow MgO + CO_2$	Binary Compound $AX \rightarrow A + X$ $2MgO \rightarrow 2Mg + O_2$	

• Metallic Oxide + Water Metallic Oxide + H ₂ O \rightarrow Base MgO + H ₂ O \rightarrow Mg(OH) ₂	• Nonmetal Oxide + Water Nonmetal Oxide + $H_2O \rightarrow Acid$ $CO_2 + H_2O \rightarrow H_2CO_3$	 Group A Metal + Nonmetal Metal + Nonmetal → Binary Compound Mg + Cl₂ → MgCl₂ 	
• Metallic Oxide + Water Metallic Oxide + H ₂ O \rightarrow Base MgO + H ₂ O \rightarrow Mg(OH) ₂	• Nonmetal Oxide + Water Nonmetal Oxide + H ₂ O \rightarrow Acid CO ₂ + H ₂ O \rightarrow H ₂ CO ₃	 Group A Metal + Nonmetal Metal + Nonmetal → Binary Compound Mg + Cl₂ → MgCl₂ 	

• Combustion Hydrocarbon + $O_2 \rightarrow H_2O$ + CO_2	 Double-Replacement AX + BY → BX + AY 	 Single-Replacement A + BX → B + AX 	• Decomposition $AX \rightarrow A + X$	• Synthesis A + X \rightarrow AX	
 Combustion Hydrocarbon + O₂ →H₂O + CO₂ 	 Double-Replacement AX + BY → BX + AY 	 Single-Replacement A + BX → B + AX 	• Decomposition $AX \rightarrow A + X$	• Synthesis A + X \rightarrow AX	



Chemistry

Chemistry

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Chemistry

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Ihank

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