

<p>_____ 1. I can balance a chemical equation showing conservation of mass using the lowest whole number coefficients.</p>	<p>Balance the following chemical equation using the lowest whole number coefficients.</p> <p>_____ C₇ H₁₀ + _____ O₂ → _____ CO₂ + _____ H₂O</p> <p>_____ Al₂(SO₄)₃ + _____ Ca(OH)₂ -----> _____ Al(OH)₃ + _____ CaSO₄</p>
<p>_____ 2. Given a list of chemical reactions, I can classify them as being a synthesis reaction, decomposition reaction, single replacement reaction, or double replacement reaction.</p>	<p>Classify the following reactions as synthesis, decomposition, single replacement, or double replacement.</p> <p>A) Mg + 2AgNO₃ → Mg(NO₃)₂ + 2Ag _____</p> <p>B) 2Mg + O₂ → 2MgO _____</p> <p>C) MgCO₃ → MgO + CO₂ _____</p> <p>D) MgCl₂ + 2AgNO₃ → 2AgCl + Mg(NO₃)₂ _____</p>
<p>_____ 3. Given reactants and the typed of reaction, I can determine the products of a reaction</p>	<p>Single Replacement: Include PHASE</p> <p>K + Zn(NO₃)₂ → _____</p> <p>Li + Mg(OH)₂ → _____</p> <p>Double Replacement : Include PHASE</p> <p>NaOH + PbNO₃ → _____</p> <p>Synthesis: Include PHASE</p> <p>H₂ + Br₂ → _____</p> <p>Decomposition: Include PHASE</p> <p>NO → _____</p> <p>Combustion: Include PHASE</p> <p>C₂H₂ + O₂ → _____</p>

___ 4 Given a compound, I can use Table F to determine its solubility	PbI ₂ _____	CoCl ₃ _____	BaSO ₄ _____
	NaCl _____	AgOH _____	Li ₃ PO ₄ _____

___ 5. Given a balanced equation, I can state the mole ratios between any of the reactants and/or products.	<p>Given the following balanced equation, state the mole ratios between the requested substances.</p> $\text{C}_3\text{H}_8(\text{g}) + 5\text{O}_2(\text{g}) \rightarrow 3\text{CO}_2(\text{g}) + 4\text{H}_2\text{O}(\text{l})$ <p>The mole ratio between C₃H₈ and O₂ is _____ C₃H₈:_____ O₂.</p> <p>The mole ratio between C₃H₈ and CO₂ is _____ C₃H₈:_____ CO₂.</p> <p>The mole ratio between C₃H₈ and H₂O is _____ C₃H₈:_____ H₂O.</p> <p>The mole ratio between CO₂ and O₂ is _____ CO₂:_____ O₂.</p> <p>The mole ratio between H₂O and CO₂ is _____ H₂O:_____ CO₂.</p>
	___ 6. I can define stoichiometry. <u>Definition:</u> Stoichiometry: _____
___ 7 Given the number of moles of one of the reactants or products, I can determine the number of moles of another reactant or product that is needed to completely use up the given reactant/product.	<p>Using the equation from question #5, determine how many moles of O₂ are needed to completely react with 7.0 moles of C₃H₈.</p> <p>Using the equation from question #5, determine how many moles of CO₂ are produced when 7.0 moles of C₃H₈ completely react.</p>