

<p style="text-align: center;"><i>Expand out these compounds.</i></p> <p>3MgCl₂ = _____</p> <p>4H₂ = _____</p> <p>2Al₂O₃ = _____</p> <p>BeO = _____</p> <p>5Li₂O = _____</p>	<p style="text-align: center;"><i>Write the following in reaction notation.</i></p> <p>3MgCl₂ = _____ 2K₃N = _____</p> <p>4H₂ = _____ 6Ca = _____</p> <p>2Al₂O₃ = _____ 8NaCl = _____</p> <p>BeO = _____ 7Fe₂O₃ = _____</p> <p>5Li₂O = _____ 2Ca(SO₄) = _____</p>
<p style="text-align: center;"><i>Why do we balance chemical reactions?</i></p>	<p style="text-align: center;"><i>Write the coefficient to equal the correct number of atoms.</i></p> <p>____ Be₂Br = Be₆Br₃ ____ BeI₂ = BeI₂</p> <p>____ O₂ = O₄ ____ H₂O = H₁₆O₈</p> <p>____ Li₃N = Li₁₂N₄ ____ CO = C₄O₄</p> <p>____ CO₂ = C₃O₆ ____ Mg₃N₂ = Mg₆N₄</p> <p>____ NaCl = Na₅Cl₅ ____ Ca(CO₃) = Ca₃C₃O₉</p> <p>____ Al₂O₃ = Al₁₂O₁₈ ____ Be(NO₃)₂ = Be₄N₈O₂₄</p>
<p>Be + O₂ → BeO</p> <p style="margin-left: 40px;">O</p> <p style="margin-left: 100px;">Is this reaction balanced correctly? Why or why not?</p>	
<p style="text-align: center;"><i>Find the molecular masses of the following:</i></p> <p>Al₂ =</p> <p>Li₃N =</p> <p>Mg₃N₂ =</p>	<p style="text-align: center;">If 11 grams of Sodium Sulfate reacts with 17 grams of Barium Chloride and produces 19 grams of table salt.</p> <p style="text-align: center;">how much Ba(SO₄) is produced?</p> <p style="text-align: center;">Na₂(SO₄) + BaCl₂ → Ba(SO₄) + 2NaCl</p> <p style="text-align: center;">(11g) (17g) (?g) (19g)</p>
<p style="text-align: center;"><i>Balance the following chemical reactions.</i></p> <p style="text-align: center;"><i>(Write reaction notation beneath the reactions to help yourself.)</i></p> <p style="text-align: center;">____ ZnS + ____ O₂ → ____ ZnO + ____ SO₂</p> <p style="text-align: center;">____ Be + ____ O₂ → ____ BeO</p> <p style="text-align: center;">____ Fe₂O₃ + ____ C → ____ Fe + ____ CO</p> <p style="text-align: center;">____ Li₂O + ____ MgCl₂ → ____ LiCl + ____ MgO</p> <p style="text-align: center;">____ Na₂(SO₄) + ____ BaCl₂ → ____ Ba(SO₄) + ____ NaCl</p>	