

Review of Molar Conversions and Balancing Equations

SWBAT: Review molar conversion and balancing equations in preparation for stoichiometry.

Convert the following:

1. 6.34 moles NaCl \rightarrow g NaCl
2. 450 g NaClO₃ \rightarrow NaClO₃
3. 37.4 g Ca(OH)₂ \rightarrow moles Ca(OH)₂
4. 3.00 moles Fe₂O₃ \rightarrow g Fe₂O₃
5. 1.32 moles CaCO₃ \rightarrow g CaCO₃
6. 203 g LiOH \rightarrow moles LiOH
7. 23.5 g Al \rightarrow moles LiOH
8. 1320 g NH₃ \rightarrow moles NH₃
9. 26 moles O₂ \rightarrow g O₂
10. 6.30 H₂O \rightarrow g H₂O

Balancing the Following:

1. C₃H₈ + O₂ \rightarrow CO₂ + H₂O
2. Al + Fe₃N₂ \rightarrow AlN + Fe
3. Na + Cl₂ \rightarrow NaCl
4. H₂O₂ \rightarrow H₂O + O₂
5. NaClO₃ \rightarrow NaCl + O₂
6. (NH₄)₃PO₄ + Pb(NO₃)₄ \rightarrow Pb₃(PO₄)₄ \rightarrow NH₄NO₃
7. BF₃ + Li₂SO₃ \rightarrow B₂(SO₃)₃ + LiF
8. CaCO₃ + H₃PO₄ \rightarrow Ca₃(PO₄)₂ + H₂CO₃
9. Ag₂S \rightarrow Ag + S₈
10. KBr + Fe(OH)₃ \rightarrow KOH + FeBr₃
11. KNO₃ + H₂CO₃ \rightarrow K₂CO₃ + HNO₃
12. Pb(OH)₄ + Cu₂O \rightarrow PbO₂ + CuOH
13. Cr(NO₂)₂ + (NH₄)₂SO₄ \rightarrow CrSO₄ + NH₄NO₂
14. Sn(NO₂)₄ + Pt₃N₄ \rightarrow Sn₃N₄ + Pt(NO₂)₄
15. ZnS + AlP \rightarrow Zn₃P₂ + Al₂S₃