

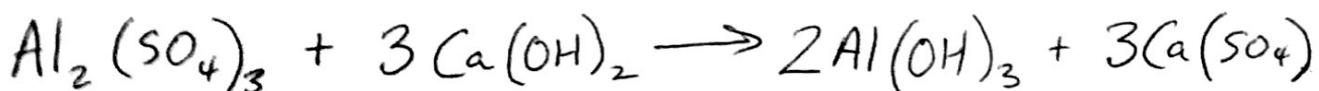
Practice on Balancing Equations

Write the balanced chemical equation for the following chemical reactions:

1. Calcium hydroxide $\xrightarrow{+}$ and hydrochloric acid (HCl) $\xrightarrow{\longrightarrow}$ calcium chloride $\xrightarrow{+}$ and water.



2. Aluminum sulphate $\xrightarrow{+}$ and calcium hydroxide $\xrightarrow{\longrightarrow}$ aluminum hydroxide $\xrightarrow{+}$ and calcium sulphate.



3. Zinc hydroxide $\xrightarrow{+}$ combines with sulphuric acid (H_2SO_4) $\xrightarrow{\longrightarrow}$ zinc sulphate $\xrightarrow{+}$ and water.



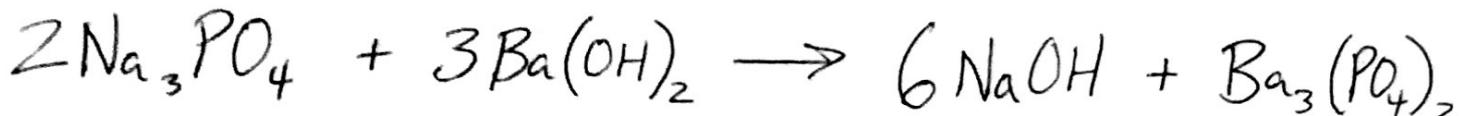
4. Barium chloride $\xrightarrow{+}$ and potassium sulphate when combined $\xrightarrow{\longrightarrow}$ produce potassium chloride $\xrightarrow{+}$ and barium sulphate.



5. Ammonia (NH_3) $\xrightarrow{+}$ burned in oxygen can $\xrightarrow{\longrightarrow}$ produce water vapour $\xrightarrow{+}$ and nitrogen dioxide gas (NO_2).



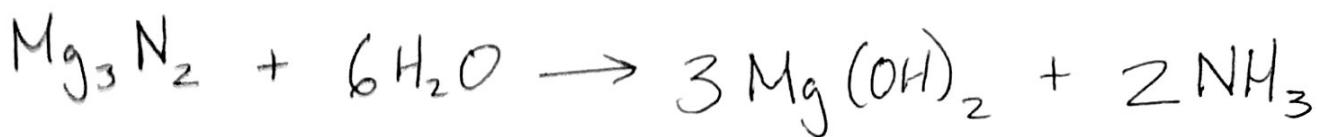
6. Sodium phosphate $\xrightarrow{+}$ and barium hydroxide $\xrightarrow{\longrightarrow}$ sodium hydroxide $\xrightarrow{+}$ and barium phosphate.



7. Copper and hydrogen nitrate when combined produce copper (II) nitrate and water and nitrogen dioxide (NO_2).



8. Magnesium nitride and water produce magnesium hydroxide and nitrogen hydride.



9. Hydrogen iodide reacts with hydrogen sulphate (sulphuric acid) to create hydrogen sulphide and iodine plus water.



10. Calcium hydroxide added to magnesium bicarbonate produces magnesium hydroxide plus calcium bicarbonate.



11. Manganese hydroxide added to hydrogen phosphate creates manganese phosphate and water.



12. Silicon oxide and calcium carbonate create calcium silicate (CaSiO_3) and carbon dioxide.

