

# CHEMISTRY - GENEST

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Remember to write phase (s), (l), (g), (aq) whenever possible.  
 These are unbalanced reactions. Next week we will learn to balance

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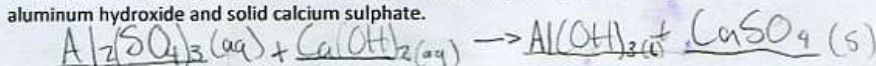
## Worksheet 6.2 Word Equations

1. Write the chemical equations and balance each of the following word equations.

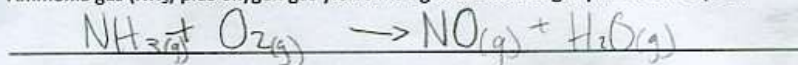
- a) Aluminum metal reacts with iron (II) oxide powder to produce aluminum oxide solid and iron metal.



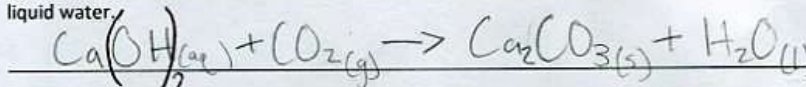
- b) Aluminum sulphate <sup>aq</sup>solution and calcium hydroxide solution produce a precipitate of aluminum hydroxide and solid calcium sulphate.



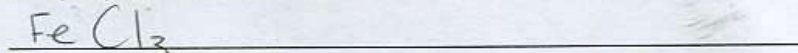
- c) Ammonia gas (NH<sub>3</sub>) plus oxygen gas yields nitrogen monoxide gas plus water vapour.



- d) Calcium hydroxide solution and carbon dioxide gas yields solid calcium carbonate and liquid water.



- e) Aqueous iron (III) chloride and sodium carbonate solution yields aqueous sodium chloride and a precipitate of iron (III) carbonate.



- f) Solid iron (III) oxide and carbon monoxide gas yields iron metal and carbon dioxide gas.



- g) Magnesium carbonate solution plus aqueous hydrochloric acid (HCl) yields magnesium chloride solution plus liquid water and carbon dioxide gas.



- h) Silicon dioxide solid plus aqueous hydrofluoric acid (HF) yields solid silicon tetrafluoride plus liquid water.



- i) Aqueous sodium hydroxide and carbon dioxide gas yields sodium carbonate solution and liquid water.

