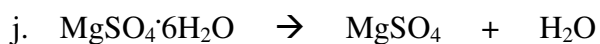
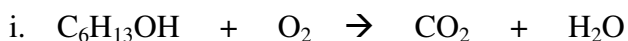
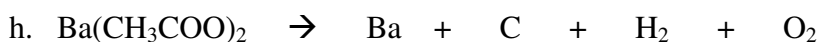
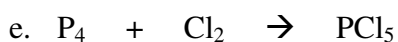
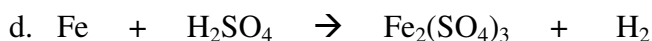
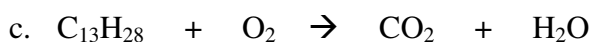
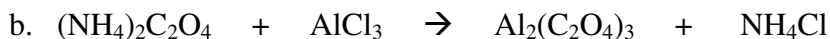
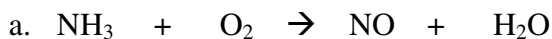


## Chemistry 11

### Chemical Equation Balancing

1. Balance the following equations.



2. Write a balanced chemical equation for each of the following. Don't forget *diatomic* elements! (2 marks each = 24 marks)

a. aluminum metal reacts with bromine to form aluminum bromide

Answer \_\_\_\_\_

b. hydrochloric acid neutralizes aluminum hydroxide to form water & aluminum chloride

Answer \_\_\_\_\_

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- c. hexane ( $C_6H_{14}$ ) burns in oxygen to produce carbon dioxide and water

Answer \_\_\_\_\_

- d. carbon dioxide and water are reacted to produce glucose ( $C_6H_{12}O_6$ ) and oxygen in photosynthesis

Answer \_\_\_\_\_

- e. aluminum nitrate reacts with lithium sulphate to form aluminum sulphate and lithium nitrate

Answer \_\_\_\_\_

- f. ammonia and phosphoric acid react to form ammonium phosphate

Answer \_\_\_\_\_

- g. nitrogen dioxide reacts with water to form nitric acid and nitrogen monoxide

Answer \_\_\_\_\_

- h. bromine reacts with sodium iodide to produce iodine and sodium bromide

Answer \_\_\_\_\_

- i. calcium reacts in water to produce hydrogen gas and calcium hydroxide

Answer \_\_\_\_\_

- j. butanol ( $C_4H_9OH$ ) burns in oxygen to produce carbon dioxide and water

Answer \_\_\_\_\_

- k. hydrogen peroxide decomposes to form water and oxygen gas

Answer \_\_\_\_\_

- l. aluminum bromide reacts with ammonium dichromate to produce aluminum dichromate and ammonium bromide

Answer \_\_\_\_\_