More Balancing ...

CHEMICAL FORMULA WORKSHEET

A. Balance the following equations (formulas are correct)

1.
$$Zn + HCl -----> ZnCl_2 + H_2$$

2.
$$C_{1}H_{6}+ O_{2}-----> CO_{2} + H_{2}O$$

3.
$$\operatorname{CaCO}_{3}^{+}$$
 HCl -----> CaCl_{2} + H_{2}^{O} + CO_{2}

4.
$$Cu + HNO_3$$
 $Cu(NO_3)_1 + H_2O + NO_2$

5.
$$Mn(OH)_{4} + H_{3}PO_{4} -----> Mn_{3}(PO_{4})_{4} + H_{2}O$$

- B. From the following word equations, create the chemical reactions and balance the equations
- 1. Copper and hydrogen nitrate when combined produces copper nitrate, water, and nitrogen dioxide (NO₂)

Magnesium nitride and water produces magnesium hydroxide and nitrogen hydride 2. Hydrogen iodide reacts with hydrogen sulphate to create hydrogen sulphide, 3. iodine, and water Manganese hydroxide added to hydrogen phosphate creates manganese phosphate 4. and water. $\begin{array}{c} (5101) \\ \text{Silicon oxide and calcium carbonate creates calcium silicate (CaSiO_3) and carbon} \end{array}$ 5. dioxide (CO₂)