

### Ch3/ PowerPoint Study-2 Stoichiometry – Equations Name:

Answer these questions as you are watching the videos. They are due in class.

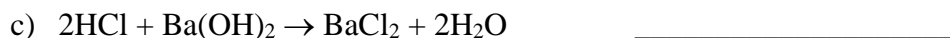
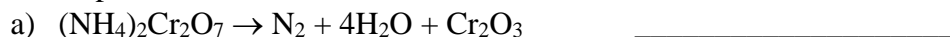
These questions are not just for you to answer but also to prepare you for the exam.

Make sure you understand what you are writing and not just copy from the text book.

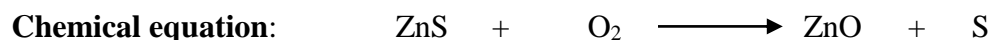
1) Balance the following equations:



2) Classify the following equations as synthesis, double displacement, single displacement, or decomposition.



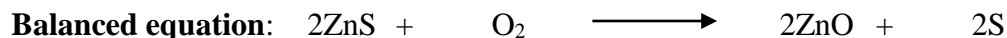
**Word equation:** Write the chemical equation when zinc sulfide reacts with oxygen to form zinc oxide and sulfur.



i) oxygen is diatomic element hence written as  $\text{O}_2$ .

ii) Zn is a transition metal but will always has a valency of +2 hence (II) was not written in the word equation.

iii) sulfur is not diatomic element, hence written as S.



Write the following word equations in chemical equation, and then balance the equations.

**Word equation:** Barium hydroxide and sulfuric acid make water and barium sulfate.

**Balanced Chemical equation**

**Word equation:** Copper metal and silver nitrate react to form silver metal and copper (II) nitrate.

**Balanced Chemical equation**