

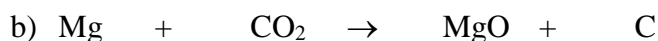
Ch3/ PowerPoint Study-2Stoichiometry – Equations Name:

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

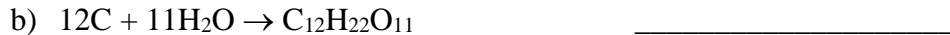
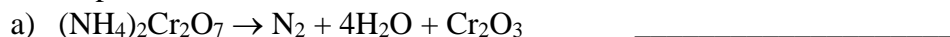
These questions are not just for you to answer but also to prepare you for the exam.

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

1) Balance the following equations:



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



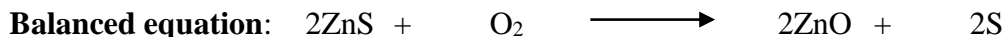
An equation can be written from a word equation. For example:

Word equation: zinc sulfide reacts with oxygen to form zinc oxide and sulfur



Note:

- i) oxygen is diatomic element hence written as 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