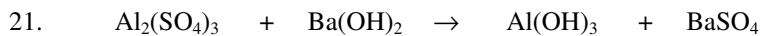
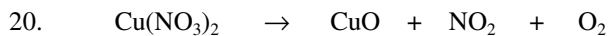
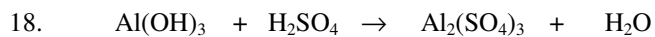
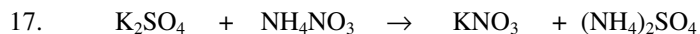
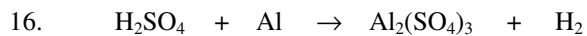
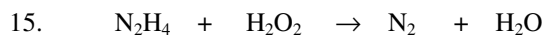
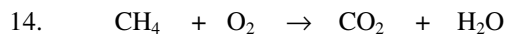
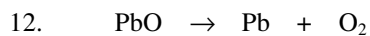
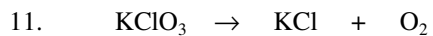
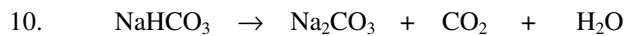
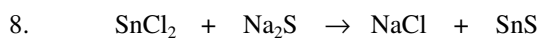
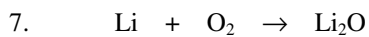
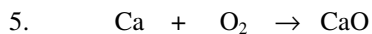
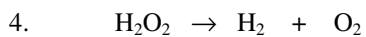
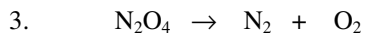
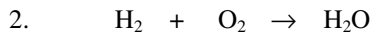
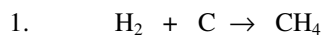


SCH 3UI Assignment 11: Balancing Chemical Equations

A: Balance the following skeleton equations.



B: Write the balanced chemical equation for the following word equations.

1. sodium + water \rightarrow sodium hydroxide + hydrogen gas
2. zinc sulphide + oxygen \rightarrow zinc oxide + sulphur dioxide
3. acetylene (C₂H₂) + oxygen \rightarrow carbon dioxide + water
4. lead (II) nitrate \rightarrow lead (II) oxide + oxygen gas + nitrogen dioxide
5. chlorine + water \rightarrow hydrogen chloride + oxygen
6. sodium peroxide + water \rightarrow sodium hydroxide + oxygen
7. nitric acid \rightarrow water + nitrogen dioxide + oxygen gas
8. manganese dioxide + hydrochloric acid \rightarrow manganese (II) chloride + water + chlorine
9. carbon + nitric acid \rightarrow nitrogen dioxide + water + carbon dioxide
10. hydrogen iodide + sulphuric acid \rightarrow hydrogen sulphide + iodine + water
11. magnesium + hydrochloric acid \rightarrow magnesium chloride + hydrogen gas
12. tin + sulphuric acid \rightarrow tin (IV) sulphate + sulphur dioxide + water
13. hydrogen gas + oxygen gas \rightarrow water
14. lithium + acetic acid \rightarrow lithium acetate + hydrogen gas
15. calcium carbonate \rightarrow calcium oxide + carbon dioxide
16. potassium sulphate + barium nitrate \rightarrow barium sulphate + potassium nitrate
17. iron + oxygen gas \rightarrow ferric oxide
18. calcium oxide + water \rightarrow calcium hydroxide
19. silver nitrate + sodium chloride \rightarrow sodium nitrate + silver chloride
20. propane (C₃H₈) + oxygen gas \rightarrow carbon dioxide + water