Chemistry 10 Dr. Scholefield

Chapter 7 Worksheet

Homework is not collected or graded, but should be worked on seriously every week.

Part A: Writing Equations and Classifying Reactions

1.	Write balanced chemical equations for each reaction described below, then classify them as either combination, decomposition, combustion, single displacement or double displacement reactions.
a.	Phosphoric acid reacts with pure sodium metal to form pure hydrogen and aqueous sodium phosphate.
	Equation:
	Classification:
Ь.	Benzene liquid (C_6H_6) burns in oxygen to form carbon dioxide and water (and heat).
	Equation:
	Classification:
e.	Calcium nitrate (aq) reacts with lithium sulfide (aq) forming solid calcium sulfide and lithium nitrate (aq) .
	Equation:
	Classification:
d.	Sodium bicarbonate when heated will form solid sodium carbonate, carbon dioxide and water vapor.
	Equation:
	Classification:
e.	Sulfur naturally exists as S_8 molecules. Sulfur reacts with pure fluorine to form gaseous sulfur hexafluoride.
	Equation:
	Classification:
f.	Cobalt(III) bromide (aq) reacts with pure chlorine forming pure bromine and cobalt(III) chloride (aq) .
	Equation:
	Classification:
g.	Aqueous potassium hydroxide reacts with sulfuric acid to form water and aqueous potassium sulfate.
	Equation:
	Classification:
h.	Iron(II) oxide reacts with pure oxygen to form iron(III) oxide.
	Equation:
	Classification: