

Worksheet 9A - Chemistry
Ch. 9 Chemical Reactions
Balancing Equations

Name -----
Period----

Directions: Write the ^{Chemical} ~~eq~~ and balance the chemical equation for the following:
Remember the diatomic molecules and include states when given.

1. carbon and water yield hydrogen gas and carbon dioxide gas
2. sodium and iodine yield sodium iodide (All are solids!)
3. sulfur dioxide gas burns in oxygen to form sulfur trioxide gas (SO_3)
4. acetylene gas (C_2H_2) plus oxygen yields carbon dioxide gas plus water vapor
5. zinc chloride (aq) and sodium hydroxide (aq) react to form a precipitate of zinc hydroxide and sodium chloride (aq)
6. sodium metal burns to form sodium oxide
7. potassium metal and water yield potassium hydroxide dissolved in water and hydrogen gas
8. ammonia gas (NH_3) plus oxygen yields nitrogen monoxide (NO) and water
9. hydrogen phosphate (aq) and barium hydroxide (aq) yields water and barium phosphate as a precipitate
10. solid sodium chloride plus fluorine gas yields solid sodium fluoride and chlorine gas