

Chapter 21 Chemical Bonds

Wkst 21.B

Name _____

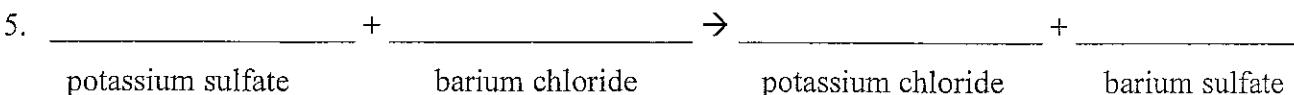
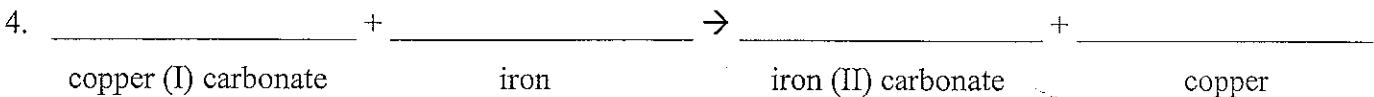
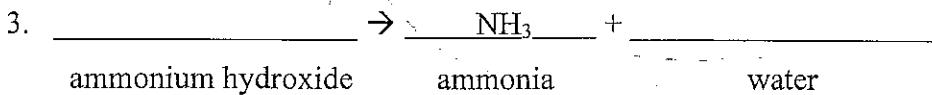
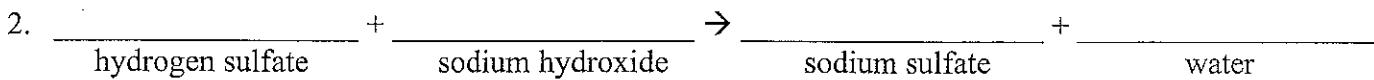
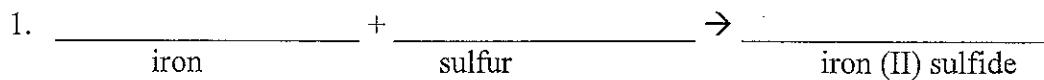
Worksheet: Balancing Equations

Period _____ Date _____

(Frameworks Code)

Part A: Balance the following equations using coefficients when necessary:

1. Zn + HCl → ZnCl₂ + H₂
2. H₂ + O₂ → H₂O
3. AgNO₃ + NaCl → NaNO₃ + AgCl
4. Al + H₂SO₄ → Al₂(SO₄)₃ + H₂
5. HCl + KOH → KCl + HOH
6. CaO + HOH → Ca(OH)₂
7. NaCl + H₂SO₄ → Na₂SO₄ + HCl
8. H₂CO₃ → H₂O + CO₂
9. Na + HOH → NaOH + H₂
10. Fe + O₂ → Fe₂O₃

Part B: For each of the following, write the formulas in the blanks and balance the equations:

Write the chemical equation and balance.

1. Zinc plus lead (II) nitrate yields zinc nitrate plus lead.
2. Aluminum bromide and chlorine yield aluminum chloride and bromine.
3. Sodium phosphate and calcium chloride produces calcium phosphate and sodium chloride.
4. Potassium chlorate when heated yields potassium chloride and oxygen gas.
5. Aluminum plus hydrogen chloride produces aluminum chloride plus hydrogen gas.
6. Hydrogen gas reacts with nitrogen monoxide yields water and nitrogen gas.
7. Silver Nitrate plus sodium chloride yields sodium nitrate plus silver chloride.