

Worksheet 9.B -- Chemistry

Name \_\_\_\_\_

Ch. 9 Chemical Reactions

Period \_\_\_\_\_

Combustion & Synthesis

**Directions:** Complete the following word equations if necessary. Then write a complete balanced chemical equation for each reaction indicated. Remember the diatomic molecules and include states when given.

1. magnesium plus oxygen
2. aluminum plus oxygen
3. calcium plus sulfur
4. copper plus sulfur yields copper (I) sulfide
5. aluminum plus bromine
6. hydrogen plus oxygen
7. iron plus iodine yields iron (III) iodide
8. silver plus nitrogen
9. methane ( $\text{CH}_4$ ) plus oxygen yields carbon dioxide gas plus water vapor
10. heptane ( $\text{C}_7\text{H}_{16}$ ) plus oxygen