Classifying Chemical Reactions

Types of chemical reactions:

- 1. Synthesis
- 2. Decomposition
- 3. Combustion
- 4. Single-Replacement
- 5. Double-replacement

*Classifying how atoms rearrange during a chemical reaction













5. Double Replacement Reaction: Reaction in which there is an exchange of ions between compounds. $AX + BY \longrightarrow AY + BX$ *Cations switch places *Always produce a precipitate, a gas, or water Ex: $Ca(OH)_{2(aq)} + 2HCI_{(aq)} \longrightarrow CaCI_{2(aq)} + 2H_2O_{(I)}$ $AgNO_{3(aq)} + NaCl_{(aq)}$ Double Replacement: +



