

Purpose: This report will discuss the four major types of chemical reactions, classify them as endothermic or exothermic, and record the different reactants and products in order to produce a balanced chemical equation that corresponds to each reaction. The four basic chemical reactions are as follows:

Type of Reaction	General Reaction Pattern
Synthesis	$A + B \rightarrow AB$
Decomposition	$AB \rightarrow A + B$
Single Displacement	$A + BC \rightarrow B + AC$
Double Displacement	$AB + CD \rightarrow AD + CB$

Materials/Apparatus:

Small beaker		Scoopula	
Graduated Cylinder		Safety Goggles	
Hot plate		Matches	
Test tube rack		Copper (II) Chloride	