

Types of Reactions

I. Synthesis reaction: $A + B \rightarrow C$



II. Decomposition reaction: $C \rightarrow A + B$



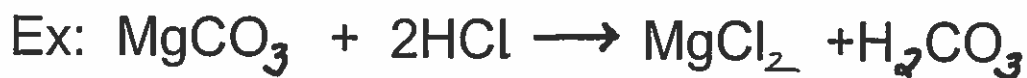
III. Single replacement reaction: $A + \text{BX} \rightarrow \text{AX} + \text{B}$

An *uncombined* element replaces an element that is part of a compound.



IV. Double replacement reaction: $\text{AX} + \text{BY} \rightarrow \text{AY} + \text{BX}$

2 compounds react to form 2 *new* compounds.



CLASSIFYING CHEMICAL REACTIONS

Name _____

Classify the following reactions as synthesis, decomposition, single replacement or double replacement.

