

Classifying Chemical Reactions

1. **Synthesis -**

**Two or more simple substances are combined to form one new and more complex substance.**

**A + B AB**

   

1. **Decomposition Reaction -**

**A more complex substance breaks down into its simpler parts.**

**AB A + B**

  

1. **Single Replacement Reaction -**

**A free uncombined element replaces another combined element in a compound.**

**AB + C AC + B**

  



1. **Double Replacement Reaction -**

**Involves two ionic solutions that react to produce two other ionic compounds. One of the compounds often forms a precipitate.**

**AB + CD AC + CD**

   