Classifying Reactions Comic

**Synthesis: A + B → AB**

**2 H2O2 → 2 H2O + O2**

**Decomposition reaction: A complex compound breaks down to form two simple ones.**

**2Na+ Cl2 → 2NaCl**

**Synthesis reaction: Two or more simple molecules are combined to create one complex product.**

**Decomposition: AB → A + B**



**Single Replacement: AB + C → AC + B**

**KBr + Cl2 → KCl + Br2**

**Balanced: 2KBr + Cl2 → 2KCl + Br2**

**Single Displacement: When an element trades places with**

**another element in a compound.**

**Double Replacement: AB + CD → AD + BC**

**Na2S+ HCl→ NaCl + H2S**

**Balanced: Na2S + 2HCl → 2NaCl + H2S**

**Double Displacement: When the anion and the cation of two different compounds change places to create two completely new compounds.**

**with element trades places with**

**another element in a compound.**