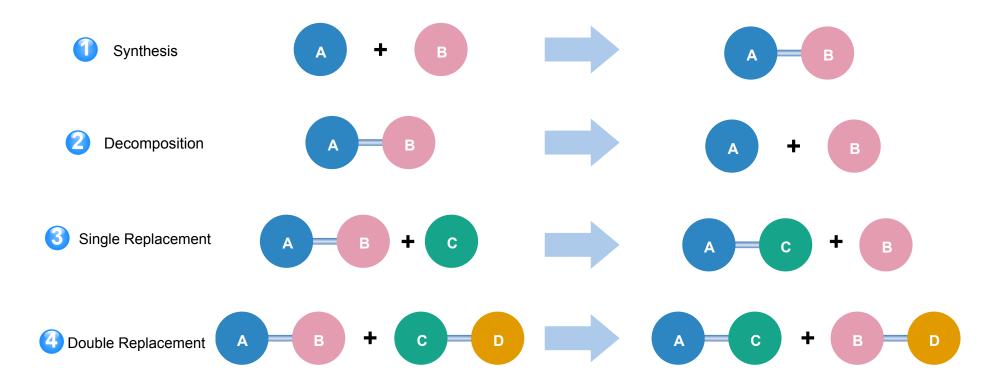
Four Basic Types of Chemical Reaction



Types	Description	Exmaple
Synthesis Reactions	Elements are joined together.	$2H_2 + O_2 \rightarrow 2H_2O$
Decomposition Reactions	A compound breaks into parts.	$2H_2O \rightarrow 2H_2 + O_2$
Single Displacement Reactions	A single element replaces an element in a compound.	Zn + 2HCl→ H ₂ + ZnCl ₂
Double Displacement Reactions	An element from each of two compounds switch places.	H ₂ SO ₄ + 2NaOH → Na ₂ SO ₄ + 2H ₂ O