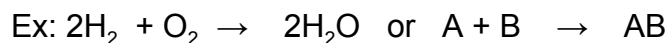
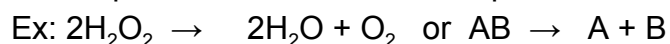


## **Classifying Chemical Reactions**

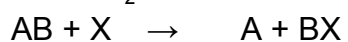
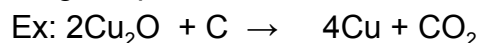
**Synthesis:** When two or more elements or compounds combine to make a more complex substance.



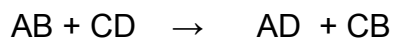
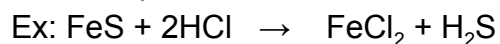
**Decomposition:** breaks down compounds into simpler products.



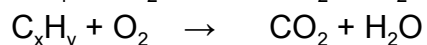
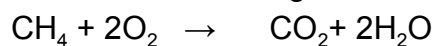
**Single replacement:** One element replaces another in a compound.



**Double replacement:** when parts of two ionic compounds are exchanged, making two new compounds.



**Combustion:** burning



## **Energy and reactions:**

**Activation energy:** The minimum amount of energy needed to start a chemical reaction.

**Catalyst:** A material that increases the rate of a reaction by lowering the activation energy.