

# Chemical Reactions and Equations

## Chemical Reaction

- change in state
- colour
- gas
- temperature

ex: Magnesium + Oxygen  $\rightarrow$

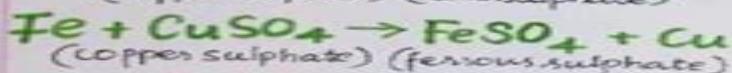
(Reactants)

magnesium oxide  
(products)



## DISPLACEMENT

Reaction

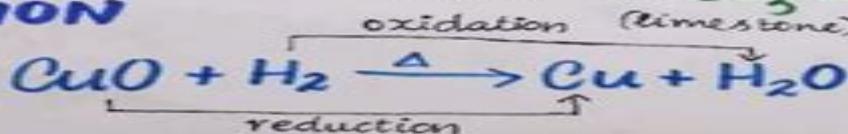


## DOUBLE DISPLACEMENT

Reaction



## OXIDATION & REDUCTION



## Why balance Chemical equation

$\Rightarrow$  Mass can neither be created nor destroyed in a chemical reaction.  
 $\triangleright$  Total mass of elements in the product of a chemical reaction has to be equal to the total mass of the elements in the reactants side.

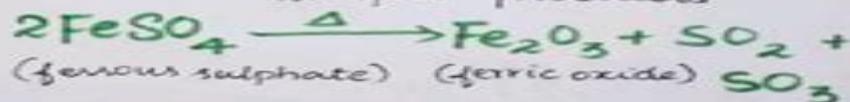
## COMBINATION

Reaction when two or more substances combine to form a single product.



## DECOMPOSITION

Reaction when a single reactant breaks down to simpler products



# Chemistry Notes Chapter 8 Chemical Reactions

**Rachel S Tattersall**



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