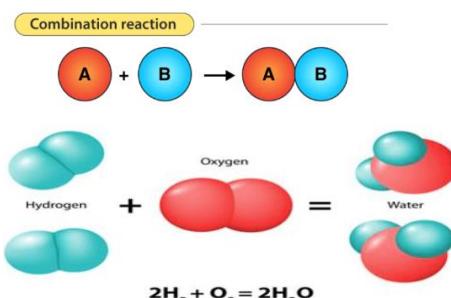
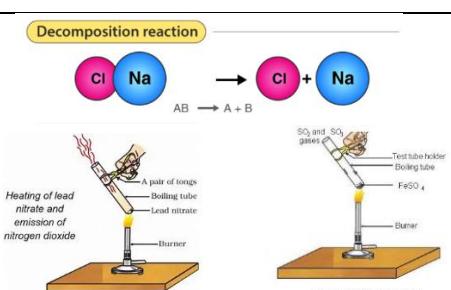


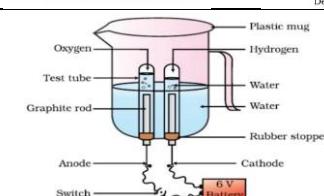
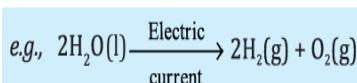
combine to form a single product.



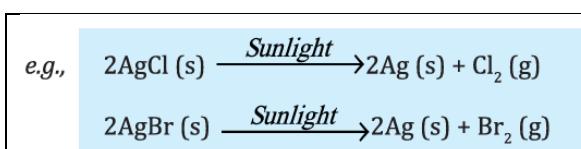
- **Thermal decomposition** : When decomposition is carried out by heating.



- **Electrolytic Decomposition:** When decomposition is carried out by passing electricity.

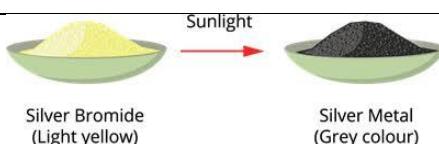


Photolytic Decomposition : When decomposition is carried out in presence of sunlight.

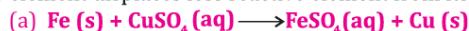


Silver chloride turns grey on exposure to sunlight

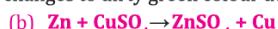
* Above reaction is used in black & white photography.



DISPLACEMENT REACTION : The chemical reaction in which more reactive element displaces less reactive element from its salt solution.



The iron nail becomes brownish in colour by deposition of Cu and blue colour of CuSO_4 changes to dirty green colour due to formation of FeSO_4 .



Zn is more reactive than copper.

DOUBLE DISPLACEMENT REACTION : A reaction in which new compounds are formed by mutual exchange of ions between two compounds.

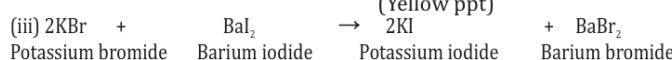


(Sodium sulphate) (Barium chloride) (Barium sulphate) (Sodium chloride)

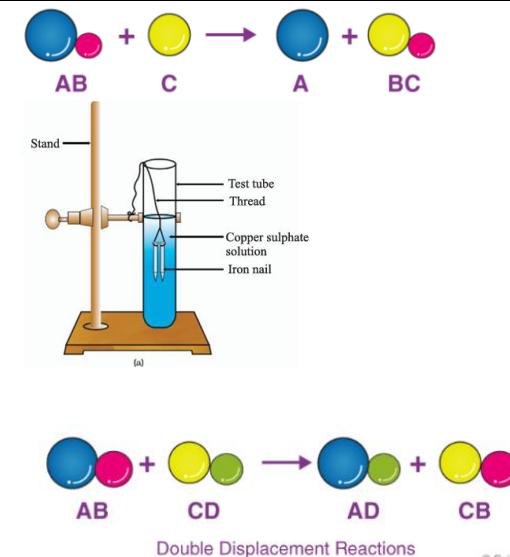
white precipitate of BaSO_4 is formed, so it is also called precipitation reaction.



Potassium iodide Lead nitrate Lead iodide Potassium nitrate



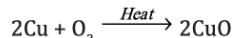
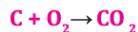
Potassium bromide Barium iodide Potassium iodide Barium bromide



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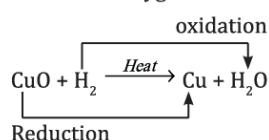
OXIDATION AND REDUCTION :

Oxidation : (i) The addition of oxygen to reactant.
(ii) The removal of hydrogen from a reactant.

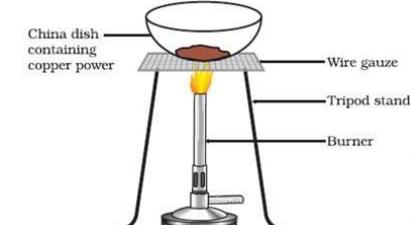


Reduction : (i) The addition of hydrogen to reactant.

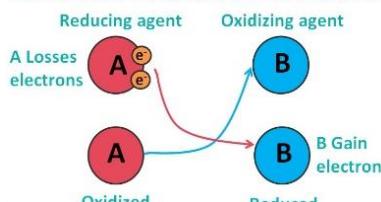
(ii) The removal of oxygen from a reactant.



In this reaction CuO is reduced to Cu and H_2 is oxidized to H_2O . So, oxidation and reduction taking place together is redox reaction.



OXIDIZING AND REDUCING AGENTS



Rancidity: Oxidation of oils or fats in a flood, resulting into a bad smell and taste.

Preventions: ✓ Adding anti-oxidants. ✓ Replacing air by Nitrogen ✓ Refrigeration of food stuff
✓ Storing the food in air-tight containers (Vacuum Packing)

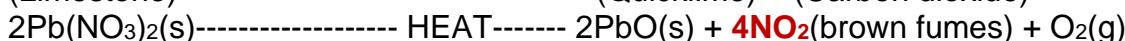
SOME IMPORTANT REACTION



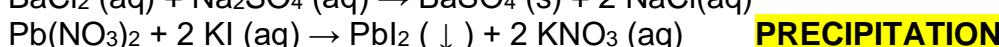
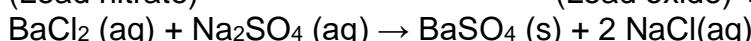
Ferric Sulphate -Green Ferric Oxide -Red-Brown (Rotten Egg Smell)



(Limestone) (Quicklime) + (Carbon dioxide)



(Lead nitrate) (Lead oxide) + (Nitrogen dioxide) + (Oxygen)



PRECIPITATION