

CLASS - VIII

CHAPTER - 2

SUBJECT - CHEMISTRY

TEACHER - ANAMIKA

28.10.24

Chemical change:- It is a permanent change in which the chemical composition of substance is changed and one or more new substance with different chemical composition and different properties are formed.

Characteristics of chemical change:-

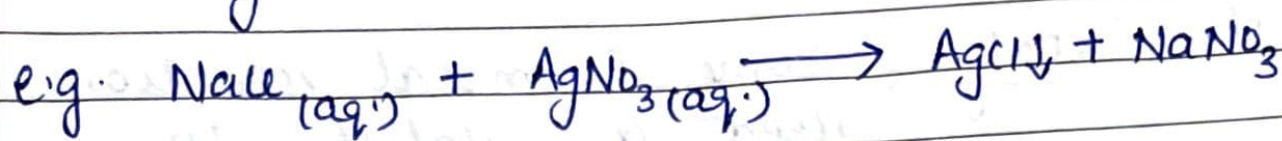
1. It is permanent & irreversible
2. The composition of substances undergoing a chemical change changes
3. It is either exothermic or endothermic
4. It obeys law of conservation of mass

A chemical change occurs when particles collide

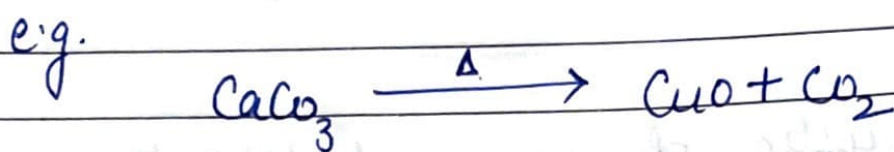
Conditions for chemical change:-

1. **Mixing:-** e.g. I_2 & phosphorus react when brought into close contact.

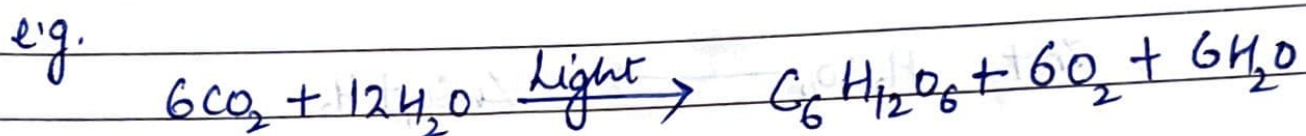
2. Solution:- Some reaction take place when they are in molten state.



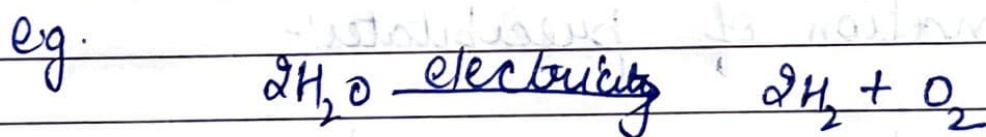
3. Heat:- Some Chemical Reaction occur only on heating.



4. Light:- Some Chemical reaction take place by action of light.

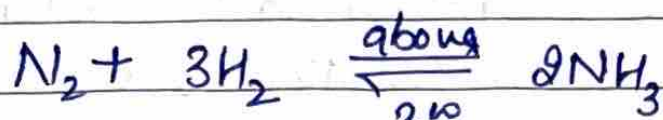


5. Electrolysis:- Certain chemical reaction like the decomposition of certain compounds, occurs only when ~~constant~~ electricity pass.

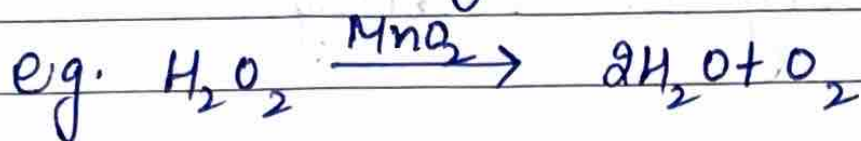


6. Pressure:- Some chemical reaction take place only when the involved substances are subjected to high pressure.

e.g.



7. Catalyst:- Some Chemical reaction need a catalyst to accelerate or decelerate the rate at which they occur.



Characteristic of Chemical reaction

a) Evolution of gas:-
e.g.

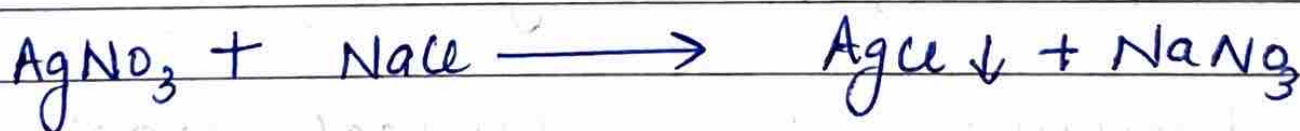


b) Change of colour

e.g.



c) Formation of precipitates:-



d) change of state

e.g.

