

TENDER HEART HIGH SCHOOL, SEC-33B, CHD

CLASS - VII

CHAPTER - 5

SUBJECT - CHEMISTRY

TEACHER - ANAMIKA

28.10.24

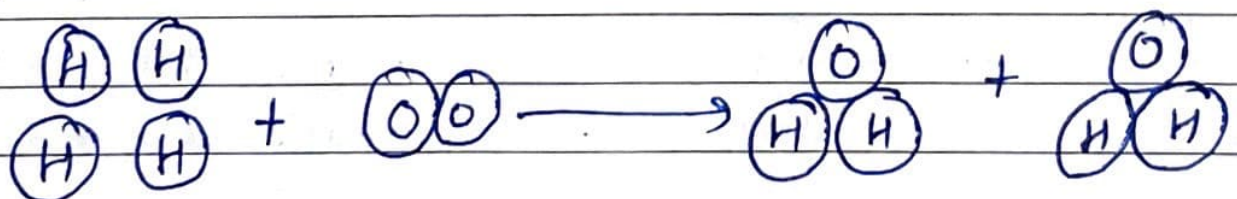
Chemical Reaction:- Any chemical change in matter which involves its transformation into one or more new substances is called a chemical reaction. It also involves transfer of energy.

Reactant $\xrightarrow{\text{Chemical change}}$ Product

What happens to the reactant during a chemical change?

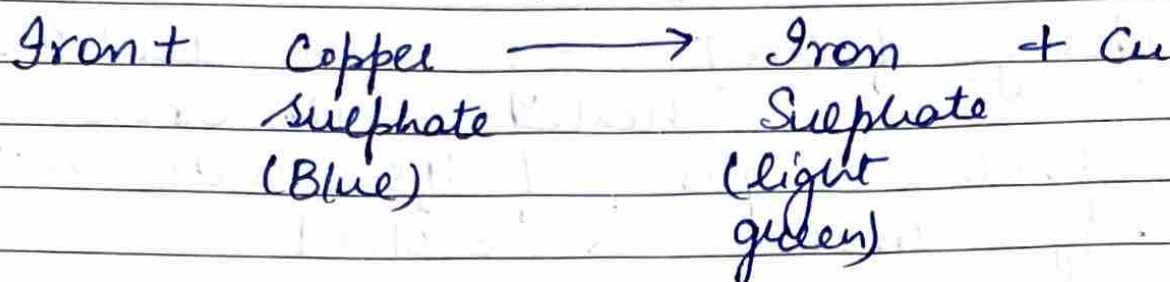
During a chemical reaction, atoms of reacting molecules rearrange themselves to form one or more products.

Example:- Element of hydrogen & oxygen react with each other to form new substance water.

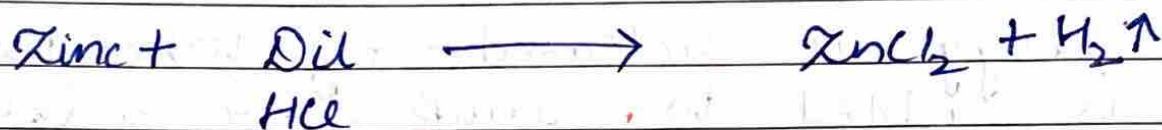


characteristic of occurrence of chemical reaction:

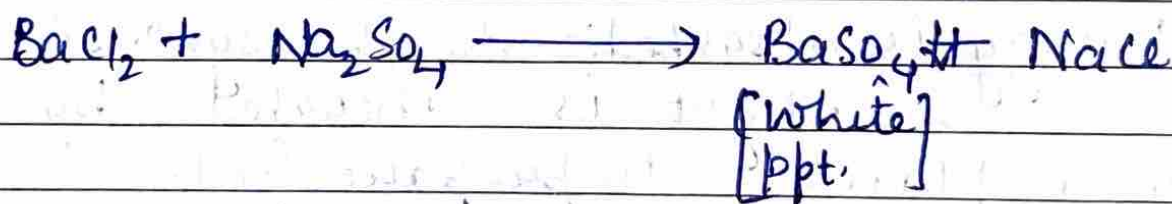
1. Change in Colour: - e.g. When a few pieces of Fe are dropped in blue solution of CuSO_4 , blue colour slowly changes into light green.



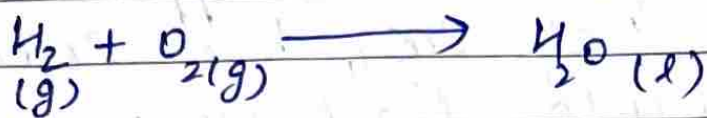
2. Evolution of gas: - e.g. When Zn granules react with dil HCl, an effervescence is observed.



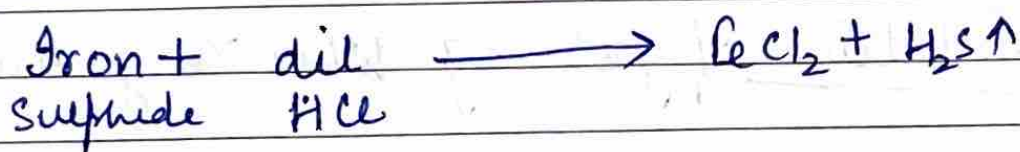
3. Formation of precipitate: - e.g. When Barium Chloride solution is added to sodium sulphate solution, a white ppt. of barium sulphate formed.



4. Change of state:- e.g. When hydrogen gas is burnt in oxygen gas it results in formation of water which is liquid.

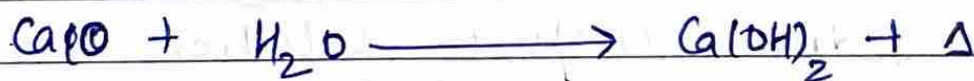


5. Change of smell:- e.g. When dil HCl is heated with Iron sulphide, a gas of H_2S with rotten egg smell is evolved.



6. change of Energy

- a) Energy is released:- e.g. When water is added to quick lime a large amount of heat energy is evolved.



- b) Energy is absorbed:- In photosynthesis, sunlight is absorbed by green plants to prepare food.

