

5.11.2020

Chapter-6Chemical Reactions

\* Any chemical change in matter which involves transformation into one or more substances with entirely different properties is called a chemical reaction.

\* **CHEMICAL BOND:** is the attractive force that holds the atoms of a molecule together in a compound.

Question

What happens during a chemical reaction?

Ans → \* A chemical reaction involves breaking of chemical bond between atoms of reacting substances.

\* Rearrangement of atoms making new bonds to form new substances with absorption or release of energy in the form of heat and light.

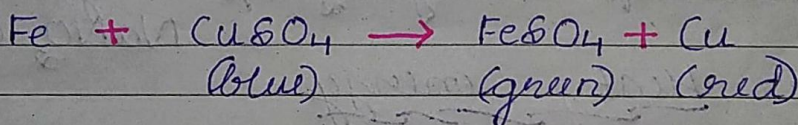
## CHARACTERISTICS OF CHEMICAL REACTION

### 1. Evolution of gas

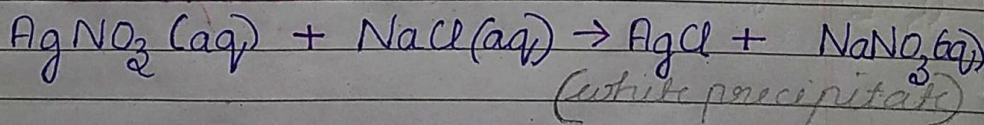


The formation of gas bubbles in a liquid during a reaction is called EFFERVESCENCE.

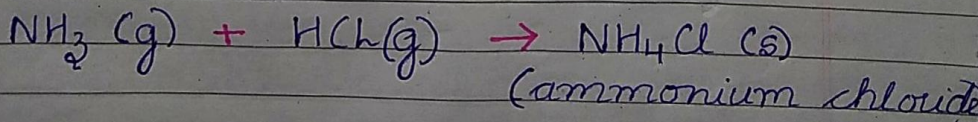
### 2. Change of colour



### 3. Formation of precipitate



### 4. Change of state



### 5. Change in energy

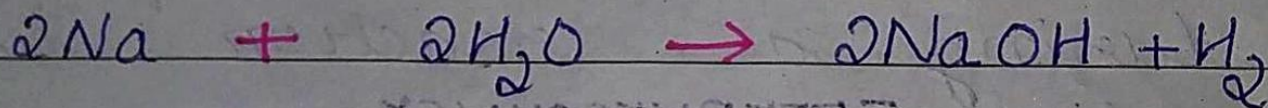
\* Burning of fuel  $\Rightarrow$  energy is released.



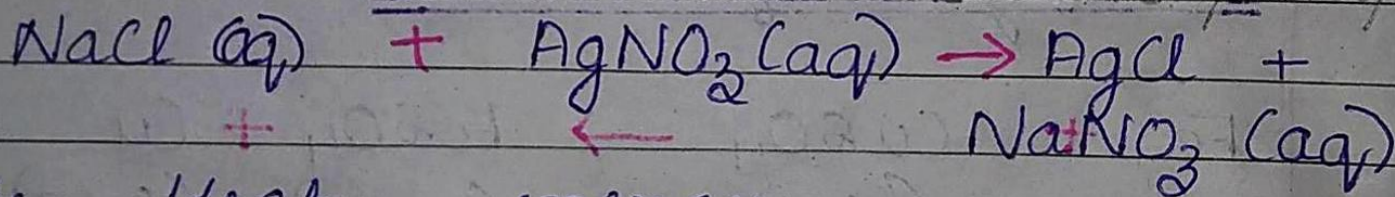
\* Decomposition of calcium carbonate :- heat energy absorbed.

Conditions necessary for chemical reaction

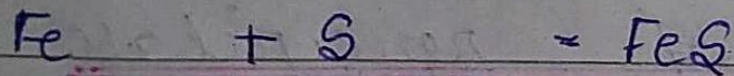
1. Close contact



2. Solution form



3. Heat energy



iron sulphide.