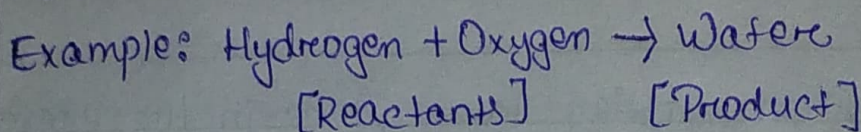


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2/11/21

HOME ASSIGNMENT

1) What do you mean by chemical reaction? Give one example in support of your answer.

Ans: Any chemical ~~rea~~ change in matter which involves transformation into one or more new substances is called a chemical reaction.



2) Mention any three conditions for the reaction to take place. Give example for each.

Ans: i) Heat: Iron + Sulphure $\xrightarrow{\text{heat}}$ Iron Sulphide

ii) Light: Silver Bromide $\xrightarrow{\text{sunlight}}$ Silver + Bromine Gas

iii) Catalyst: Potassium Chlorate $\xrightarrow{\text{MnO}_2}$ Potassium Chloride + Oxygen

3) Give an example for the reaction that takes place in the presence of heat. Write the word equation.

Ans: Heat: Iron + Sulphure \rightarrow Iron Sulphide

4) What do you mean by catalyst? Give an example.

Ans: A catalyst is a substance which changes the rate of a chemical reaction without itself undergoing any ^{chemical} change.

Ex: Potassium Manganese dioxide $\xrightarrow{\text{Potassium Chlorate}}$ Potassium Chloride + Oxygen

5) Write the chemical equation for a reaction that takes place in the presence of light.

Ans: Light: Silver Chloride $\xrightarrow{\text{Sunlight}}$ Silver + Chlorine Gas