RATES OF CHEMICAL REACTIONS
 \* Some chemical reaction occurs instaneously, thirt of the speed of an explosion, Others weathering of rocks, occurs extremely slow, Ripening of fruits, fire works.

 RATES OF CHEMICAL REACTIONS
 Notesale
 Notesale</li concentration of the product increase. We can therefore measure the rate of a reaction by monitoring changes in the concentration of reactants or products

- **RATES OF CHEMICAL REACTIONS**\* Able to mean for 5 of 35
  \* The change Provide Provide of a gas
- The rate of formation of precipitate (ppt)
- The change in pH where the pH of reactants and products differ.

# RATES OF CHEMICAL REACTIONS \* The effect of Catalyst pareaction rates A catalyst is a substance that speeds up a

- chemical reaction, but its not used up in the reaction.
- A catalyst do not appear in the chemical equation.

Take part in the rxn, but are unchanged, chemically, at the end, though solid catalyst may undergo physical changes.

## RATES OF CHEMICAL REACTIONS

- × The effect of Catalyst on reaction rates
- × Catalyst provide different or easier way to form products.
- × It can provide a surface the reactants to react
- It can provide an alternative route for the reaction to take place.
- Catalyst may bring reacting molecule closer togetherthus more opportunities for reactant molecules to collide.
- Note that different catalyst have different effects on reaction rates