Chemical Reactions

MM

The States Street

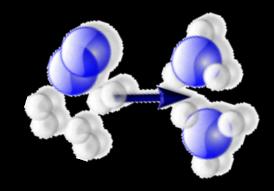
- Chemical Reaction -- A process in which some substances change into different substances.
- Ex: Magnesium + Oxygen → Magnesium Oxide



Chemical Equations.

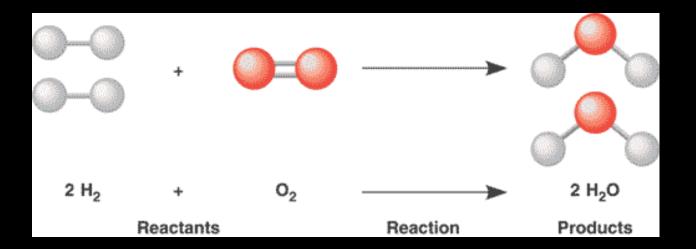
- Reactants starting substance
 On left
- Products ending substance... what is produced.
 - On right

 $Reactants \rightarrow Products$



Law of Conservation of Mass

- Matter cannot be created or destroyed.
- Atoms are just re-arranged.



Rate of Reaction: speed at which a chemical reaction happens.

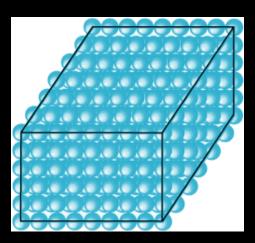
Factors affecting rate of reaction....





 Concentration -- the amount of substance present.

 Higher concentration=faster reaction



- Surface area the amount of area on the outside of an object.
 - More surface area=faster reaction

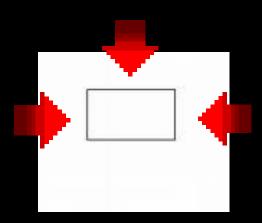


- Temperature the speed in which particles move.
 - Higher temperature=faster reaction



- Catalyst A substance that brings the reactants together.
- The catalyst doesn't change.

- Pressure the amount of space a substance has to move in.
 - More pressure=faster reaction



Agitation-mixing molecules

More agitation=faster reaction