



# Topic-Chemical Reactions & Equations Lecture-01 Sudhanshu Sir



Zinedu hai to...possible hai!

# INTRODUCTION

## Chapter Content

- Physical Change
- Chemical Change
- Writing & Balancing of Chemical Reaction & equation
- Rusting & corrosion

# Type of Reaction

- Addition Reaction ✓
- Displacement Reaction ✓
- Double Displacement Reaction ✓
- Combustion Reaction ✓
- Hydrogenation Reaction ✓
- Neutralization Reaction ✓
- Endo Thermic Reaction ✓
- Exothermic Reaction ✓
- Reversible & Irreversible Reaction ✓
- Redox Reaction ✓

# Physical Changes

Physical changes occur when objects or substances undergo a change that does not change their chemical composition.



Crushing a can



Melting an ice cube



Boiling water



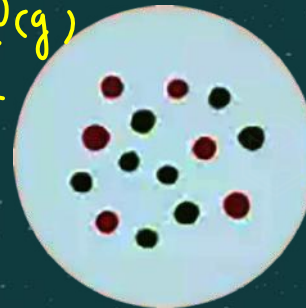
Breaking glass



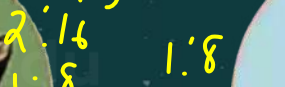
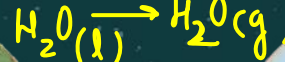
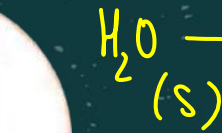
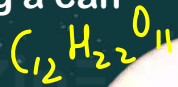
Dissolving sugar in water



Chopping wood



Mixing green and red marbles



# Properties of Physical Changes

- No new substances are formed
- Can be generally reversed
- No change in weight during physical change

# Examples of Physical Changes

- Condensation of water vapors ✓
- \* Formation of solutions of soluble substances in water ✓
- \* Crystallization of salts from their solutions ✓
- Beating of metals into sheets or drawing metals into wires ✓
- \* Magnetization of iron ✓
- Sublimation of Camphor / Iodine / Ammonium Chloride
- Melting of ice or evaporation of water ✓





Thank You



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