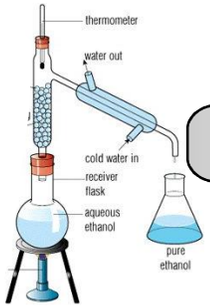
Class-IX(Chemistry)

MAP-3

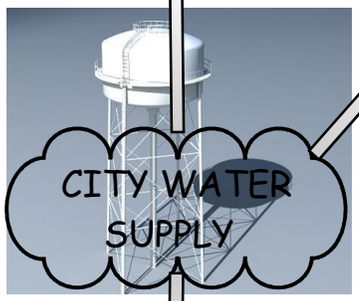
SEPARATION OF GASES FROM AIR

- Fractional distillation
  - Liquid N_2 boils off followed by liquid O_2



- Purification
  - Removal of dust, gases & water vapour
- Liquefaction
  - (At high P & low T)

CITY WATER SUPPLY



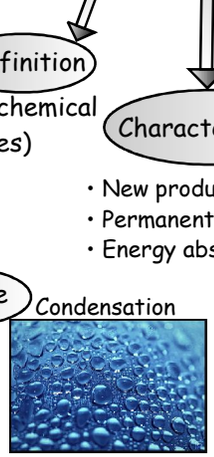
- Sedimentation
  - Heavy impurities settle down

- Filtration
  - Suspended impurities separates

- Sterilization
  - Removal of harmful micro organism

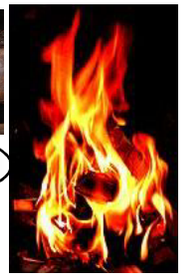
CHANGES IN MATTER

- Physical change
  - Definition
    - (Change in physical properties)
  - Characteristics
    - No new product formed
    - Temporary and reversible change
    - No net gain or loss of energy
  - Example
    - Condensation



- Chemical change
  - Definition
    - (Change in chemical properties)
  - Characteristics
    - New product formed
    - Permanent and irreversible change
    - Energy absorbed or evolved
  - Example
    - Rusting

    - Combustion



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