

CHEMISTRY STUDY MATERIALS FOR CLASS 9

(NCERT based Revision Notes on Chapter - 2)

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Is Matter Around Us Pure

Separation of components of a mixture

- Heterogeneous mixtures can be separated into their constituents by simple **physical methods**.
- **Methods include:** handpicking, sieving, filtration.



Handpicking



Sieving

Separation of a mixture of two immiscible liquids

- Separation of a mixture of two immiscible liquids is done by using a separating funnel.
- **Applications:** To separate a mixture of oil and water, in the extraction of iron from its ore.

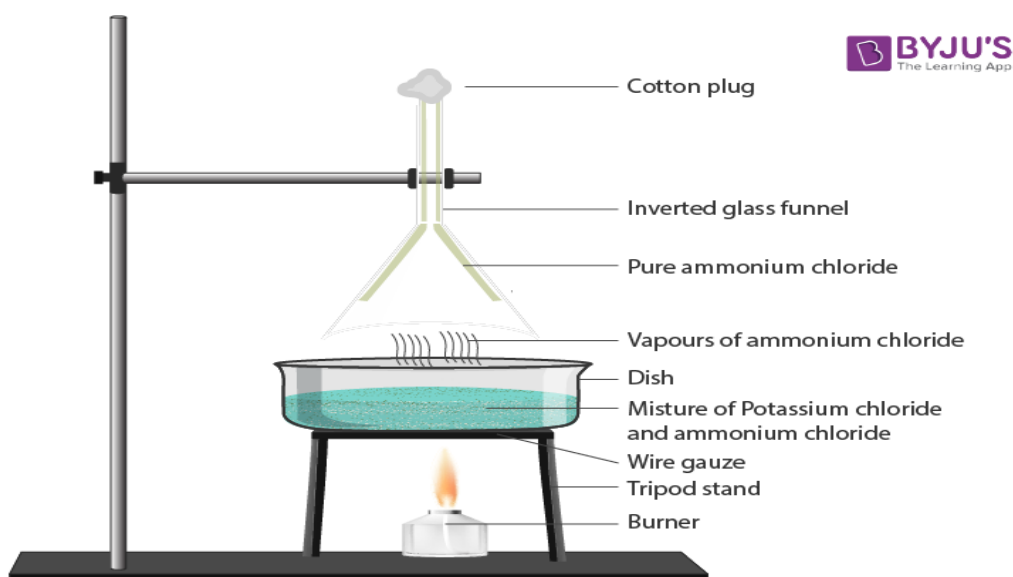
Centrifugation

- **Centrifugation** uses centrifugal force for the separation of two liquids in a mixture.
- Here, a denser component of the mixture migrates away from the axis, and lighter component migrates towards the axis.

Sublimation

Sublimation is the transition of a substance from **solid phase to gaseous phase** without changing into liquid phase.

- **Example:** Naphthalene balls undergo sublimation.



Solid undergoing sublimation

Chromatography

- **Chromatography** is used to separate the different components in a liquid mixture.
- It is based on the different properties of compounds in **two phases**: stationary and mobile phase.
