

Use of more than one method of separation

For separation of some mixtures more than one method is used for e.g. separation of sand from salt. Let us see how it is separated. It takes place through four processes.

1. Decantation
2. Filtration
3. Evaporation
4. Condensation

- Add some water to the sand and salt mixture and allow it to settle for some time.
- The sand has settled at the bottom. Now decant the water.
- Sand is separated but the salt still needs to be separated from water.
- Boil the water in a kettle and place a metal plate with ice on it just above the spout of the kettle.
- Water droplets begin to fall from the metal plate. Collect it in a beaker.
- Let whole of the water evaporate. What is left behind is the salt.