

Activity Number- 5

Sedimentation and Decantation

Class :VI

Subject:Science

Duration – 30 minutes

Nature of activity : Individual

Learning Outcome : Students will be able to **discover** the process of sedimentation and decantation

What I have to do ?To separate a mixture of sand and water

What I require ?sand , water , beakers , glass rod

What do I need to know?Substances around us are mostly mixtures.They contain two or more substances .There are many instances when we need to separate a substance from mixture. Many substances around us contain only one type of constituent particle.These are called pure substances.Substances containing more than one type of constituent particles are called impure substances.Impure substances can be separated by different methods like hand picking , winnowing , sieving , magnetic separation , sedimentation , decantation , loading , filtration , evaporation , sublimation , distillation , churning.

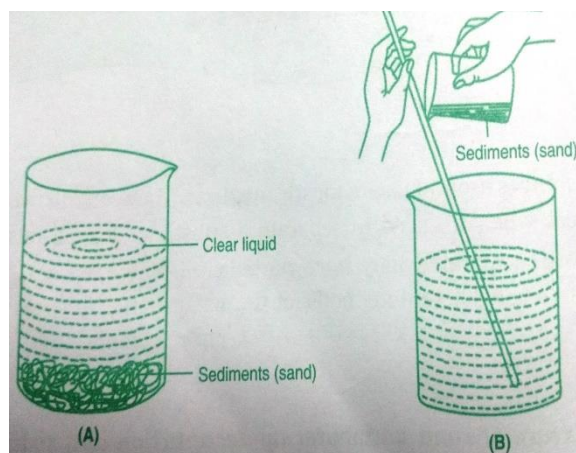
Teacher's Activity: Teacher will

- (1) arrange the apparatus required for the experiment
- (2) guide the students to perform the activity.

How will I proceed ?

Student's Activity: Students will :

- (1) put some sand and water in a beaker.
- (2) stir the mixture with glass rod.
- (3) allow the mixture undisturbed for sometime to settle.
- (4) observe the solution for sometime .
Heavier sand particles will settle at the bottom.
- (5) also observe that the clear water above is poured into another beaker with the help of a glass rod.
In this process we do not disturb the settled particles.



What have I observed :

Clear liquid which is transferred to another beaker is _____(pure/impure)

Sand particle which are heavy settle at the bottom are called _____

What have I learnt ?

The mixture of sand and water can be separated by _____ and _____.

What I would be interested / curious about ?Does the sand mixes again with water when the solution is disturbed after sedimentation ?

Extended learning worksheet

Identify the method of separation by looking at the pictures and define them:

1.



(a) Method :

(b) Definition :

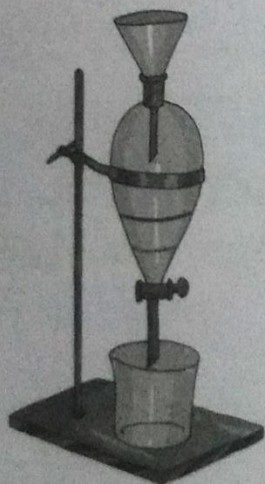
2.



(a) Method :

(b) Definition :

3.



(a) Method :

(b) Definition :

4.



(a) Method :

(b) Definition :