

ACTIVITY NO. –5: LET’S SEPARATE A MIXTURE OF SULPHUR AND WATER !

Subject	Science
Class	VI
Chapter/Unit	Separation of substances
Topic	Filtration
Time	40 mins
Nature of Activity	Individual

What will I learn (Learning Outcome) :

To discover that 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.

Skill: Applying and Evaluating.

What I have to do ?

To separate a mixture of sulphur and water by filtration.

What I require ?

Sulphur powder , water , beakers , glass rod, funnel and conical flask

What 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.

➤ Teacher's Activity:

Teacher will

- (1) explain the concept of filtration
- (2) demonstrate how to arrange the apparatus required for the experiment.
- (3) guide the students to perform the activity .

How will I proceed ?

➤ Student's Activity:

Students will :

- (1) make the mixture of sulphur and water in a beaker.
- (2) stir the mixture with glass rod.
- (3) make a cone shape with filter paper and fix it on the funnel over conical flask pour the mixture into another beaker through funnel carrying filter paper.

What have I observed :

S.No	What is left on the filter paper?	What is there in the bottom of the conical flask?

What have I learnt ?

The mixture of sulphur and water can be separated by _____

What am I curious to learn ?

Let us find out if the same method can be used to separate the mixture of sand and water? If not, then suggest another method.

Let me evaluate myself

Q1.Which of the following mixtures would you be able to separate using the method of filtration?

- (a) Oil in water
- (b) Cornflakes in milk
- (c) Salt in water
- (d) Sugar in milk

Q2.What is the difference between saturated and unsaturated solution ?

Q3.Which process is used to separate bacteria from water ?

Q4.What is the difference between filtrate and residue ?

Q5.Why do we need to separate the components of a mixture?

Q.6 Explain the process of filtration with the help of a well labeled diagram.