

CHEMISTRY

SAMPLE BOOK





INDEX

GRADE-6















Experiential Experimental Edutaining



I AM PROGRESSING

(Tick mark the columns after achieving the Learning Milestones)



1 st Learning	Exercise Solving	1 st Revision	2 nd Revision
	1 st Learning	1st Learning Exercise Solving	1st Learning Exercise Solving 1st Revision



CHEMISTRY

SAMPLE THEORY

3

SEPARATION OF SUBSTANCES

INTRODUCTION

We see many things around us which are a mixture of one or more substances.

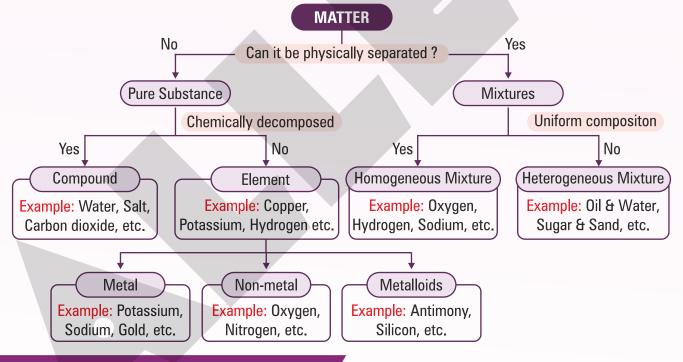
For example, while making tea we mix many things in it like, tea leaves, sugar, milk, water and ginger but afterwards we strain it, so as to separate it from the mixture and obtain just the liquid out of it.



CLASSIFICATION OF MATTER

Anything which occupies space and has mass is called **matter**. Matter exists in three different states, namely, solid, liquid and gas.

Matter can be classified as shown below.



NEED FOR SEPARATION OF SUBSTANCES

We need to separate the substances from their mixtures because of the following reasons:

- To obtain useful substance from a mixture of substances.
- To remove any type of impurities or harmful substances from a solution.
- To remove unwanted materials from a mixture.







CHEMISTRY

SAMPLE EXERCISE

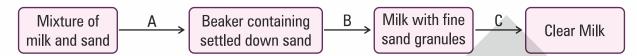


GRADE-6 Separation of Substances



Directions: Solve each of the following multiple choice guestions by choosing the most appropriate option.

Directions for Q. 1 to Q. 4: Refer to the flowchart given below and answer the questions that follow.



- For the above given flowchart select the correct option for A, B and C. 1.
 - (1) Sedimentation Decantation **Filtration** Decantation (2) Sedimentation Filtration (3) Filtration Centrifugation Decantation (4) Decantation Centrifugation Filtration
- Raju wants to separate a mixture of Sulphur and Iron filings. Which of the following methods should he use to 2. separate this mixture?
 - (1)A
- (2)B

(3)C

- (4) None of these
- A mixture of sand and water was made, but pure water couldn't be obtained even after performing the 3. separation methods A and B. Which method should be followed to obtain pure water?
 - (1) Filtration
- (2) Threshing
- (3) Handpicking
- (4) Chromatography
- Which of the following mixtures cannot be separated by using the separation method C? 4.
 - (1) Draining the water from a pot of noodles
- (2) Separation of fine gravel and coarse gravel

(3) Separating rotten grapes

(4) None of these

Directions for Q. 5 to Q. 7: Refer to the flowchart given below and answer the questions that follow.

