

CHEMISTRY

SAMPLE BOOK





INDEX

GRADE-7













Experiential Experimental Edutaining



I AM PROGRESSING

(Tick mark the columns after achieving the Learning Milestones)



TOPIC	1 st Learning	Exercise Solving	1 st Revision	2 nd Revision
Fibre to Fabric				
		0 9 8		
Physical and Chemical Changes				
OKITY C	of E			
Acids, Bases and Salts				
Water				
Waste Water Management				



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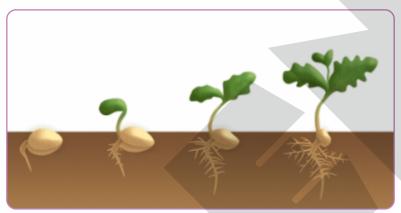
SAMPLE THEORY

CHAPTER **2**

PHYSICAL AND CHEMICAL CHANGES

INTRODUCTION

Many changes take place around us. We can say that a change has occurred if a substance or object changes its shape, size, texture, appearance, odour, colour or any other chemical properties. Everything in the universe keeps on undergoing a change in a few seconds, minutes, hours or even years.



Growing of a Plant

REVERSIBLE & IRREVERSIBLE CHANGES

REVERSIBLE CHANGES

The changes which can be reversed, i.e., the objects or substances undergoing such changes can be brought back to their original form are called **reversible changes**.

Examples: Inflating a balloon, melting of chocolate, folding a paper, etc.

IRREVERSIBLE CHANGES

The changes which cannot be reversed, i.e., the objects or substances undergoing such changes cannot be brought back to their original form are called **irreversible changes**.

Examples: Tearing a paper, burning of wood, cooking food, etc.



Reversible change

Irreversible change







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SAMPLE EXERCISE



(1) A-1, B-2, C-3, D-4

CRADE - 7 Physical and Chemical Changes



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

DII	ctions. Solve each c	יו נוופ	rollowing multiple choice qu	เธอเเต	ons by choosing the m	ost appropriate option.			
1.	Rayna listed down the methods using which the prevention for rusting can be done. These are as given below:								
	(i) Tinning		(ii) Galvanising (iii) Pla	stic coating				
	(iv) Alloying		(v) Oil painting (vi) Ena	nmel coating				
	The number of non-metallic coatings listed above are								
	(1) 4		(2) 5	3	(4) 6				
2.	Read the statements given below and state whether they are true (T) or false (F) by choosing the correct option.								
	A: Change is a universal phenomenon.								
	B: New substances are formed during physical change.								
	C: Expansion and contraction of railway crossings during summers is an example of reversible change.								
	D: Burning a paper is not a change.								
	(1) TTFF		(2) TFTF (3)	FFT1	(4) FT	ΓF			
3.	(1) Applying force	tanc	e can be brought by doing wh (2) Mixing it with something		of the following ?				
	(3) Heating		(4) All of the above						
4.	Below given are some characteristics of a change. Which of the following does not belong to chemical change?								
	(1) It is a permanent change.								
	(2) It cannot be easily reversed.								
	(3) Only a little heat is absorbed during this change.								
	(4) There is no change in mass during this change.								
5 .	Match Column-I with Column-II and select the correct option.								
	Column-I			Column-II					
		Α.	Boiling of eggs	1.	Slow change				
		B.	Melting of wax	2.	Irreversible change				
		C.	Glowing of an electric bulb	3.	Reversible change				
		D.	Rusting of iron	4.	Fast change				

(4) A-3, B-2, C-4, D-1

(2) A-2, B-3, C-4, D-1

(3) A-4, B-3, C-2, D-1

