

SCIENCE

SAMPLE BOOK





INDEX

GRADE-2

















Experiential Experimental Edutaining



I AM PROGRESSING

(Tick mark the columns after achieving the Learning Milestones)



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SCIENCE

SAMPLE THEORY

CHAPTER 7

MATTER

Matter

Anything that has mass and occupies volume (space).

Matter is commonly said to exist in 3 states (or phases): Solid, Liquid and Gas.

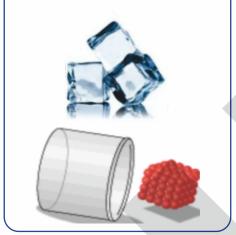
States of Matter

Solid

A solid substance has a definite shape.

The molecules are packed tightly together.

It can't be compressed.



Liquid

A liquid substance has no definite shape. It takes the shape of the container it is in.

The molecules are farther apart. It can't be compressed.



Gas

A gas substance has no definite shape. It takes the shape of the container it is in and spreads out to fill the container.

The molecules are much far apart. It can be compressed.



Comparison Table

S.No.	Properties	Solids	Liquids	Gases
1	Mass	Definite	Definite	Definite
2	Shape	Definite	Acquires the shape of the container	Acquires the shape of the container
3	Volume	Definite	Definite	Indefinite
4	Space between particles	Most closely packed	Less closely packed	Least closely packed
5	Example	Table, chair, ice etc.	Water, milk, juice etc.	Water vapour, air etc. (mixture of gases)







SCIENCE

SAMPLE EXERCISE



GRADE-2 Matter



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

1.	Which of these is the conversion of solid into liquid?						
	(1) Melting a wax candle		(2) Slicing a loaf of bread				
	(3) Turning milk into ice	cream	(4) Mixing ingredients to	make dough			
2.	A substance melted. Later, it froze. Which states of matter was the substance in during the whole process?						
	(1) Solid only		(2) Liquid and solid				
	(3) Liquid and gas		(4) Solid, liquid and gas				
3.	What happens to a liquid if it is cooled enough?						
	(1) It begins to boil.		(2) It turns into a gas.				
	(3) It turns into a solid.		(4) It turns into a new sub	stance.			
4.	What will make the ico	e cube melt ?					
	(1) The plate		(2) The window				
	(3) Heat from the Sun		(4) Water				
5.	Complete the sentence. When a substance melts, it-						
	(1) changes from a solid to a liquid.		(2) changes from a liquid to a solid.				
	(3) changes from a liquid to a gas.		(4) changes from a gas to a liquid.				
6.	How do you know that	t air is matter?					
	(1) Air can be attracted by a magnet.		(2) You cannot see air, so it is not matter.				
	(3) You can smell air.		(4) Air takes up space and has mass.				
7.	Water vapour turns into liquid water droplets and sticks to the outer side of a cold glass. in this process th water .						
	(1) boiled	(2) condensed	(3) frozen	(4) melted			
8.	When a liquid evaporates, it-						
	(1) becomes a solid.	(2) changes colour.	(3) boils.	(4) becomes a gas.			
9.	What are the states of matter you see in the picture?						
	(1) Gas and liquid		(2) Solid, liquid and gas	FULL EMPTY			
	(3) Solid and liquid		(4) Only solid				



