DCP FOR CHAPTER-1

MATTER AND ITS COMPOSITION

Number of periods	Sub-Topics
1	Introduction, matter has mass and occupies space
2	Composition and characteristics of matter
3	Characteristics of particles of matter
4	States of matter
5	Inter conversion of states of matter
6	Summarization of the chapter, discussion of exercise questions

ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VII		**Subject**	CHEMISTRY
Prd	1	**Chapter-1**	MATTER AND IT'S COMPOSITION	
Sub-Concepts	Introduction, matter has mass and occupies space.			
Teaching Aid To be used	Smart Class, PowerPoint presentation.			
Learning Outcome	Students will be able to • Familiarised with the definition of matter • Sensitize all the examples of matter • Understand matter has mass and it occupies space.			
Sl. No	**Step Wise (What to be done)**			
1. **Introduction**	**For Achievers** ➢ Discuss the previous knowledge with the students. ➢ What are the things around us like water, soil, plants, minerals, animals etc called?		**For Average** ➢ Discuss the previous knowledge with the students. ➢ What are the things around us like water, soil, plants, minerals, animals etc called?	
2.Matter	➢ Define matter ➢ Explain the concept of matter by showing a video. ➢ https://youtu.be/QQsybALJoew			
3. Matter has mass and occupies space	➢ Explain that matter has mass and it occupies space by showing them a video ➢ https://youtu.be/FxS-pzysJJA			
Home Assignment	Exercise-1,2 Q. What do you mean matter? Q. How can you show that matter has mass and it occupies space?			

ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VII		**Subject**	CHEMISTRY
Prd	2	**Chapter-1**	MATTER AND IT'S COMPOSITION	
Sub-Concepts	Composition and characteristics of matter			
Teaching Aid To be used	Smart Class, PowerPoint presentation.			
Learning Outcome	Students will be able to • Know the composition of matter • Apprise the characteristics of matter			
Sl. No	**Step Wise (What to be done)**			
1. **Introduction**	**For Achievers** ➢ Recapitulate the previous topic by asking the following questions. ➢ What do you mean matter? ➢ How can you show that matter has mass and it occupies space?		**For Average** ➢ Recapitulate the previous topic by asking the following questions. ➢ What do you mean matter? ➢ How can you show that matter has mass and it occupies space?	
2 .Composition of matter	➢ Explain the composition of matter ➢ https://youtu.be/CnHoohcd71o ➢ Ask students to a note of composition of matter			
3. characteristics of matter	➢ Explain the characteristics of matter by showing videos https://youtu.be/JMZ7FaTua9k ➢ https://youtu.be/3S-x18UGwDM Explain the characteristics of molecules ➢ Small size ➢ They have spaces between them. ➢ They are in constant motion. They attract each other.			

	➢ Ask students to make a note of characteristics of matter.
4.Home Assignment	Exercise-10, 11 Q. Elaborate the composition of matter Q. List the characteristics of matter

ODM EDUCATIONAL GROUP Changing your Tomorrow **ODM Teachers' Note**

Class	VII		**Subject**	CHEMISTRY
Prd	3	**Chapter-1**	MATTER AND IT'S COMPOSITION	
Sub-Concepts	Characteristics of particles of matter			
Teaching Aid To be used	Smart Class, PowerPoint presentation			
Learning Outcome	Students will be able to • Familiarise with the following characteristics of the particles of matter 1. Particles of matter have space between them 2. Particles of matter are always in random motion 3. Particles of matter attract each other.			
Sl. No	**Step Wise (What to be done)**			
1. **Introduction**	**For Achievers** ➢ Recapitulation of the previous topic by asking the following questions. ➢ What do you mean by atoms? ➢ What do you mean by molecules?		**For Average** ➢ Recapitulation of the previous topic by asking the following questions. ➢ What do you mean by atoms? ➢ What do you mean by molecules? ➢ A nitrogen molecule is made up	

	➢ A nitrogen molecule is made up of how many nitrogen atoms? ➢ A carbon dioxide molecule is made up of how many carbon atom and oxygen atom?	of how many nitrogen atoms? ➢ A carbon dioxide molecule is made up of how many carbon atom and oxygen atom?
2. Characteristics of particles of matter	➢ Elaborate the following characteristics of particles of matter. 1. Explain that Particles of matter have space between them by the help of a video demonstrating an activity for the better understanding of concept https://youtu.be/fUzKozeqDPo 2. Explain Particles of matter are always in random motion by the help of a video demonstrating an activity for the better understanding of concept https://youtu.be/_tbgGgxA29s 3. Explain Particles of matter attract each other by the help of a video demonstrating an activity for the better understanding of concept https://youtu.be/_-7jrmV5Yrw	
6.Home Assignment	Exercise-5,6 Q. Write an activity to explain that particles of matter have space between them. Q. How can you explain that particles of matter are always in random motion? Q. Give any one example to explain particles of matter attract each other.	

ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VII	**Subject**	CHEMISTRY
Prd	4	**Chapter-1**	MATTER AND IT'S COMPOSITION
Sub-Concepts	States of matter		
Teaching Aid To be used	Smart Class, PowerPoint presentation, prism		
Learning Outcome	Students will be able to • Apprise 3 states of matter • Explain the different states of matter- solid, liquid and gas • Sensitize the difference in properties of three states of matter.		
Sl. No	**Step Wise (What to be done)**		
1. **Introduction**	**For Achievers** ➢ Recapitulation of the previous topic by asking the following questions. ➢ Explain that particles of matter have space between them by the help of an example. ➢ How can you explain that particles of matter are always in random motion? ➢ Give any one example to explain particles of matter attract each other.	**For Average** ➢ Recapitulation of the previous topic by asking the following questions. ➢ Explain that particles of matter have space between them by the help of an example. ➢ How can you explain that particles of matter are always in random motion? ➢ Give any one example to explain particles of matter attract each other.	
2. States of matter	➢ Explain the three states of matter. ➢ https://youtu.be/o2qM4o8e_Vo		

3.Properties of states of matter	➢ Explain the difference in the properties of states of matter by showing a chart or an image ➢ Explain the concept by showing a video https://youtu.be/sYZ3ETjK8_Y
6.Home Assignment	Exercise-3,4 Q. What are the three states of matter? Q. How can you differentiate solid liquid and gases based on the following properties? a. intermolecular space b. fluidity c. transparency d. volume e. lusture f. volume g. effect of pressure

ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VII	**Subject**	CHEMISTRY
Prd	5	**Chapter-1**	MATTER AND IT'S COMPOSITION
Sub-Concepts	Inter conversion of states of matter		
Teaching Aid To be used	Smart Class, PowerPoint presentation, videos		
Learning Outcome	• Students will be able to ➢ Understand the concept of inter conversion of states of matter ➢ Familiarize with the causes which results into the change in state of matter.		
Sl. No	**Step Wise (What to be done)**		
1. **Introduction**	**For Achievers** ➢ Recapitulation of previous topic by asking the following questions. Q. What are the three states of matter? Q. How can you differentiate solid liquid and gases based on the following properties? a. intermolecular space b. fluidity c. transparency d. volume e. lusture f. volume g. effect of pressure ➢ What happens when you boil water?	**For Average** ➢ Recapitulation of previous topic by asking the following questions. Q. What are the three states of matter? Q. How can you differentiate solid liquid and gases based on the following properties? a. intermolecular space b. fluidity c. transparency d. volume e. lusture f. volume g. effect of pressure ➢ What happens when you boil water?	

2**. change of state by changing the temperature**	➢ Explain the inter conversion of state of matter by changing the temperature with the help of a video ➢ https://youtu.be/ENVKQVIDNLY
3**.change of state by changing the pressure**	➢ Explain the inter conversion of state of matter by changing the pressure with the help of a video ➢ https://youtu.be/FIC8IqTbXZY https://youtu.be/UUm_ZAa8z6k
6.Home Assignment	Exercise-7,8 Q. Define the following term 1. evaporation 2. condensation 3. sublimation 4. vapourization

ODM EDUCATIONAL GROUP
Changing your Tomorrow

ODM Teachers' Note

Class	VII	**Subject**	CHEMISTRY
Prd	6	**Chapter-11**	MATTER AND IT'S COMPOSITION
Sub-Concepts	Summarization of the chapter, Exercise questions.		
Teaching Aid To be used	Smart Class, PowerPoint presentation		
Learning Outcome	• Students will be able to • describe matter • familiarized with the constituent(atoms or molecules) of matter • Explain the forces which keep atoms or molecules in matter together.		
Sl. No	**Step Wise (What to be done)**		
1. **Introduction**	**For Achievers** ➢ Ask the following questions ➢ Define matter. ➢ Characteristics of molecules. ➢ Three states of matter. ➢ Evaporation, vaporization, condensation, sublimation	**For Average** ➢ Ask the following questions ➢ Define matter. ➢ Characteristics of molecules. ➢ Three states of matter ➢ Evaporation, vaporization, condensation, sublimation	
2. Summarization of the chapter	All topics are to be discussed with the students.		
3. Exercise	1. Exercise questions are to be discussed. 2. True false, fill in the blanks, Match the following, Short question answers are to be discussed.		
6.Home Assignment	Exercise-12, 13 What are the three states of matter? Q. How can you differentiate solid liquid and gases based on the following		

	properties? a. intermolecular space b. fluidity c. transparency d. volume e. lusture f. volume g. effect of pressure Q. Define the following term 1. evaporation 2. condensation 3. sublimation 4. vaporization