

DCP FOR CHAPTER-1

MATTER

Number of periods	Sub-Topics
1	Matter, Characteristics of molecules, States of matter
2	Molecular model of solids, liquids and gases, Change of state.
3	Melting, freezing, vaporization or boiling, condensation. Evaporation
4	Rate of evaporation, Applications of evaporation,
5	Sublimation, explanation of sublimation by the molecular model.
6	Summarization of the chapter, Exercise questions.

Class	VIII	Subject	PHYSICS
Prd	1	Chapter-1	MATTER
Sub-Concepts	Matter, Characteristics of molecules, States of matter.		
Teaching Aid To be used	Smart Class, PowerPoint presentation.		
Learning Outcome	<p>Students will be able to</p> <ul style="list-style-type: none"> • Demonstrate matter in three states • Distinguish the three states of matter in terms of movement of particles. • Relate the three states of matter with energy of movement of particles in them. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	<p>For Achievers</p> <ul style="list-style-type: none"> ➤ Discuss the previous knowledge with the students. ➤ Molecules: mono atomic, di atomic molecules. 	<p>For Average</p> <ul style="list-style-type: none"> ➤ Discuss the previous knowledge with the students. <p>Molecules: mono atomic, di atomic molecules.</p>	
2.Matter	<ul style="list-style-type: none"> ➤ Define matter. ➤ Explain the composition of matter by showing a video. ➤ https://youtu.be/FxS-pzysJJA 		
3.Characteristics of molecules	<p>Explain the characteristics of molecules</p> <ul style="list-style-type: none"> ➤ Small size ➤ They have spaces between them. ➤ They are in constant motion. ➤ They attract each other. 		
4. States of matter	<ul style="list-style-type: none"> ➤ Explain the three states of matter. ➤ https://youtu.be/o2qM4o8e_Vo 		
Home	Exercise: B- 1,2,3		

Assignment	<ol style="list-style-type: none">1. Define the term matter. What is it composed of?2. State three properties of molecules of matter.3. What do you mean by inter molecular spaces? How do they vary in different states of matter?
8. Common Errors	

Class	VIII	Subject	PHYSICS
Prd	2	Chapter-1	MATTER
Sub-Concepts	Molecular model of solids, liquids and gases, Change of state.		
Teaching Aid To be used	Smart Class, PowerPoint presentation.		
Learning Outcome	<ul style="list-style-type: none"> • Students will be able to • Demonstrate different change of states. • Differentiate between solids, liquids and gases on the basis of their molecular models. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	<p>For Achievers</p> <p>➤ Recapitulate the previous topic by asking the following questions.</p> <ol style="list-style-type: none"> 1. Evaporation takes place at _____ temperatures. 2. _____ Process is just the reverse of melting. 3. _____ is a process that involves direct conversion of a solid into its vapour on heating. 4. The temperature at which a solid converts into a liquid is called its _____. 5. The smallest unit of matter that exists freely in nature is called _____. 6. Molecules of a substance are always in a state of _____ and so they 	<p>For Average</p> <p>➤ Recapitulate the previous topic by asking the following questions.</p> <ol style="list-style-type: none"> 7. Evaporation takes place at _____ temperatures. 8. _____ Process is just the reverse of melting. 9. _____ is a process that involves direct conversion of a solid into its vapour on heating. 10. The temperature at which a solid converts into a liquid is called its _____. 11. The smallest unit of matter that exists freely in nature is called _____. 12. Molecules of a substance are always in a state of _____ and so they 	

	<p>possess _____.</p> <p>Inter molecular space is maximum in _____ less in _____ and least in _____.</p> <p>➤</p>	<p>possess _____.</p> <p>Inter molecular space is maximum in _____ less in _____ and least in _____.</p> <p>➤</p>
2 .Molecular model of solids	<p>➤ The teacher will explain the molecular model of solids liquids and gases by showing a video.</p> <p>➤ https://youtu.be/6bHkWh5T3mk</p> <p>➤ Distinguish between solids liquids and gases.</p>	
3. Change of state	<p>1. The teacher will explain the change of state by showing a video.</p> <p>2. https://youtu.be/ENVKQVIDNLY</p> <p>3. Define change of state</p> <p>4. Define melting, freezing, boiling, condensation.</p>	
4.Home Assignment	Exercise: B- 4,5,6,7	
Common Error(s)	Difference between boiling and evaporation.	

Class	X	Subject	PHYSICS
Prd	3	Chapter-1	MATTER
Sub-Concepts	Melting, freezing, vaporization or boiling, condensation. Evaporation.		
Teaching Aid To be used	Smart Class, PowerPoint presentation		
Learning Outcome	<p>Students will be able to</p> <ul style="list-style-type: none"> • Define melting. • Define freezing. • Define boiling, condensation, evaporation. • Differentiate between boiling and evaporation. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	<p>For Achievers</p> <ul style="list-style-type: none"> ➤ Recapitulation of the previous topic by asking the following questions. ➤ Discuss the three states of matter solid, liquid and gas on the basis of molecular model. 	<p>For Average</p> <ul style="list-style-type: none"> ➤ Recapitulation of the previous topic by asking the following questions. ➤ Discuss the three states of matter solid, liquid and gas on the basis of molecular model. 	
2. Melting	<ul style="list-style-type: none"> ➤ Define melting. ➤ Show an activity on melting of wax. ➤ Discuss about melting point of different substances. 		
3. Freezing	<ul style="list-style-type: none"> ➤ Define Freezing ➤ Discuss about freezing point of different substances. 		
4. Vaporization or boiling	<ul style="list-style-type: none"> ➤ Define Vaporization. ➤ Define and explain condensation. 		
5. Condensation	<ul style="list-style-type: none"> ➤ Define condensation. ➤ Explain the process of condensation. 		

6. Evaporation	<ul style="list-style-type: none">➤ Define evaporation.➤ Explain the process of evaporation with the help of a video.➤ https://youtu.be/k9l0s5zVibo➤ https://youtu.be/e27UguK78C4
6.Home Assignment	Exercise:B-10,11,12.

Class	X	Subject	PHYSICS
Prd	4	Chapter-1	MATTER
Sub-Concepts	Rate of evaporation, Applications of evaporation.		
Teaching Aid To be used	Smart Class, PowerPoint presentation, prism		
Learning Outcome	<ul style="list-style-type: none"> • Students will be able to • Explain the concept of evaporation. • Explain how the temperature influences the rate of evaporation. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	For Achievers <ul style="list-style-type: none"> ➤ Recapitulation of the previous topic by asking the following questions. ➤ Define evaporation. ➤ Explain the terms melting and melting point. ➤ A liquid can change into vapour state at a fixed temperature and at all temperatures. Name the processes involved in it. 	For Average <ul style="list-style-type: none"> ➤ Recapitulation of the previous topic by asking the following questions. ➤ Define evaporation. ➤ Explain the terms melting and melting point. ➤ A liquid can change into vapour state at a fixed temperature and at all temperatures. Name the processes involved in it. 	
2. Rate of evaporation	<ul style="list-style-type: none"> ➤ Explain evaporation by showing a video. ➤ https://youtu.be/e27UguK78C4 		
3. Application of evaporation	<ul style="list-style-type: none"> ➤ Explain the applications of evaporation. ➤ In summer water gets cooled in the earthen pot. ➤ Putting wet cloth on the forehead of a patient having high fever. ➤ Helps to maintain the body temperature. 		
6.Home Assignment	Exercise: B-17,18,19,20		

Class	X	Subject	PHYSICS
Prd	5	Chapter-1	MATTER
Sub-Concepts	Sublimation, explanation of sublimation by the molecular model.		
Teaching Aid To be used	Smart Class, PowerPoint presentation		
Learning Outcome	<ul style="list-style-type: none"> • Students will be able to • Define sublimation. • Explain sublimation by molecular model. • Differentiate between sublimation and deposition. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	For Achievers <ul style="list-style-type: none"> ➤ Recapitulation of previous topic by asking the following questions. ➤ Define evaporation. ➤ What are the applications of evaporation? ➤ Differentiate between evaporation and boiling. 	For Average <ul style="list-style-type: none"> ➤ Recapitulation of previous topic by asking the following questions. ➤ Define evaporation. ➤ What are the applications of evaporation? ➤ Differentiate between evaporation and boiling. 	
5. Sublimation	<ul style="list-style-type: none"> ➤ Define sublimation. ➤ Define deposition or solidification. ➤ Show an activity on sublimation. ➤ https://youtu.be/sDeCg6FNuPg 		
3.Explanation of sublimation by molecular model.	<ul style="list-style-type: none"> ➤ Explain sublimation by molecular model. <p>Answer the following questions:</p> <ul style="list-style-type: none"> ➤ What do you mean by sublimation? Explain with an example. ➤ Why does the size of naphthalene ball decrease when left open? 		
6.Home Assignment	Exercise:B- 28,29,30.		

Class	X	Subject	PHYSICS
Prd	6	Chapter-11	MATTER
Sub-Concepts	Summarization of the chapter, Exercise questions.		
Teaching Aid To be used	Smart Class, PowerPoint presentation		
Learning Outcome	<ul style="list-style-type: none"> • Students will be able to • Demonstrate matter in three states. • Demonstrate change of state. • Explain different terms like boiling, melting, freezing. 		
Sl. No	Step Wise (What to be done)		
1. Introduction	For Achievers <ul style="list-style-type: none"> ➤ Ask the following questions ➤ Define matter. ➤ Characteristics of molecules. ➤ Three states of matter. ➤ Evaporation 	For Average <ul style="list-style-type: none"> ➤ Ask the following questions ➤ Define matter. ➤ Characteristics of molecules. ➤ Three states of matter ➤ Evaporation 	
2. Summarization of the chapter	All topics are to be discussed with the students.		
3. Exercise	13. Exercise questions are to be discussed. 14. True false, Fill in the blanks, Match the following, Short question answers are to be discussed.		
6.Home Assignment	Exercise: A: 1,2,3,4.		