

Subject : Science
Grade : IX
Year : 2021 -22

Year Planner

Text book used: NCERT

Month & No. of Teaching Days	Units	Sub- Units	Objectives	Activities Planned	Evaluation / Portion
April (19)	PHY: Ch-8 Motion	<ul style="list-style-type: none"> Uniform and non-uniform Motion. Derivations and graphical analysis 	<ul style="list-style-type: none"> Comprehend uniform and non-uniform motion of objects through graphs. 	- Textbook activity.	Worksheet-1A (P & C) Worksheet-1B (Bio)
	BIO: Ch-5 Fundamental unit of life	<ul style="list-style-type: none"> What are living organisms made up of? What are cells made up of? 	<ul style="list-style-type: none"> Understand structural organization of cell Know the process by which food and water move across the cell. 	<ul style="list-style-type: none"> Temporary mount of onion peel cells (LA) Percentage of water imbibed by raisins. (LA) 	
June (22)	PHY: Ch-8 Motion contd...	<ul style="list-style-type: none"> Uniform and non-uniform Motion. Derivations and graphical analysis 	<ul style="list-style-type: none"> Comprehend uniform and non-uniform motion of objects through graphs. Understand uniform circular motion. 	Textbook activity.	Worksheet-2A (P & C) Worksheet-2B (Bio)
	CHEM: Ch-2 Is matter around us pure?	<ul style="list-style-type: none"> Solutions, Mixtures, Physical and chemical changes 	<ul style="list-style-type: none"> Identify various types of solutions Learn how to separate components of mixtures. 	<ul style="list-style-type: none"> To prepare Solution, Suspension and Colloidal solution (LA). To prepare mixture and compound (LA). Classify physical and chemical changes (LA). 	SLIP TEST-1

	BIO: Ch-6 Tissues.	<ul style="list-style-type: none"> ● Plant tissues 	<ul style="list-style-type: none"> ● Identify and give functions of plant tissues ● Explain structural and functional characteristics of various types of simple and complex tissues. 	<p>Observation of:</p> <ul style="list-style-type: none"> -Parenchyma tissues in plants (LA). -Sclerenchyma tissues in plants (LA). -Observe the growing roots of Onion. 	
July (24)	PHY: Ch-9 Force and laws of Motion.	<ul style="list-style-type: none"> ● Conservation of momentum 	<ul style="list-style-type: none"> ● Understand the concepts of conservation of Momentum 	<ul style="list-style-type: none"> -Textbook activity 	Worksheet- 3A (P & C) Worksheet-3B (Bio)
	CHEM: Ch-2 Is matter around us pure. Contd..	<ul style="list-style-type: none"> ● Solutions, Mixtures, Physical and chemical changes 	<ul style="list-style-type: none"> ● Identify various types of solutions ● Learn how to separate components of mixtures. 	<ul style="list-style-type: none"> -To prepare Solution, Suspension and Colloidal solution (LA). -To prepare mixture and compound (LA). -Classify physical and chemical changes (LA). 	SLIP TEST-2
	BIO: Ch-6 Tissues. Contd...	<ul style="list-style-type: none"> ● Animal tissues. 	<ul style="list-style-type: none"> ● Identify and give functions of animal tissues ● Explain structural and functional characteristics of animal tissues. 	<p>Observation of:</p> <ul style="list-style-type: none"> -Striped muscle fibers and nerve cells in animals (LA)- Permanent slides 	PT - 1

<p>Aug (21)</p>	<p>PHY: CH-10 Gravitation.</p>	<ul style="list-style-type: none"> ● Universal law of gravitation, Free fall, Mass and weight ● Thrust and pressure <p>Archimedes principle,</p> <ul style="list-style-type: none"> ● Relative density. 	<ul style="list-style-type: none"> ● Explain universal law of gravitation, force of gravity, acceleration due to gravity. ● Describe thrust pressure and Archimedes principle 	<p>-Textbook activity. -To find minimum force required to move wooden block using spring balance (LA). -Density of solid using spring balance (LA). -Loss of weight of solid when immersed in water. (LA) Pressure exerted by cuboid (LA).</p>	<p>Worksheet- 4A (P & C) Worksheet-4B (Bio)</p> <p>SLIP TEST-3</p>
	<p>CHEM: Ch-1 Matter in our Surroundings.</p>	<ul style="list-style-type: none"> ● Characteristics; states of matter, inter-change, evaporation and boiling. 	<p>Understand about the different types of matter & latent heat</p>	<p>- Melting of ice. - Boiling point of water (LA). - Sublimation (LA).</p>	<p>Subject Enrichment Assessment-I</p>
	<p>BIO: Ch -14 Natural Resources</p>	<ul style="list-style-type: none"> ● The breath of life ● Rain ● Water ● Minerals ● Biogeochemical cycles ● Ozone layer 	<ul style="list-style-type: none"> ● Study about Air Rain, Water & Minerals. ● Explain Biogeochemical cycles. <p>Discuss about Ozone layer.</p>	<p>-Textbook activity</p>	<p>SLIP TEST-4</p>
<p>Sept (10)</p>	<p>BIO: Ch-15 Improvement in food resources.</p>	<p>Revision for Half yearly Examinations</p>		<p>P.T-2 (Half yearly Exam)</p>	<p>Revision Worksheet 1 & 2</p> <p>PT-2</p>