

ACADEMIC PLANNER 2022-23
CLASS - IX
SCIENCE

MONTH/DAYS	CONTENTS	Assignment given	Teaching pedagogy	ACTIVITY/EXPERIMENT
April 1-15				
No. of days-10				
Phy.	Chapter 8 : Motion : Describing motion, motion along a straight line, uniform and non uniform motion, speed with direction, rate of change of velocity.	Intext Questions	Lecture cum demonstration	Examples from day to day life (Real life experiences will be discussed while travelling in different vehicles)
Chem.	Chapter 2 : Is Matter around us pure: Mixtures, types of mixtures, solutions, alloys, concentration of solutions.	Intext Questions	Lecture cum demonstration	1) To prepare a) true solution of sugar, salt and alum b) suspension of soil, chalk and sand c) colloid of starch in water and egg in water.
Bio.	Chapter 5: The fundamental unit of Life: Discovery of cell, structural organization of a cell, plasma membrane, diffusion, osmosis	Notes Preparation & Intext Questions	Lecture cum demonstration	1) To prepare the temporary mount of onion peel.
		ONLINE EDUCOSOFT ASSESSMENTS		
April 16-30				
No. of days-13				
Phy.	Chapter 8 : Motion : graphs - distance/ time graph, velocity/ time graph	Intext Questions		Draw the D-t and v-t graphs on graph paper and interpret the results
Chem.	Chapter 2 : Is Matter around us pure : suspensions, colloidal solutions,	Intext questions		
Bio.	Chapter 5: The fundamental unit of Life: cell wall, nucleus, cytoplasm	Notes Preparation & Revision Questions	Distributed practice	2) To prepare temporary mount of a human cheek cells.
		ONLINE EDUCOSOFT ASSESSMENTS		
	CLASS TEST- I (2 MAY-10 MAY) 20 MARKS (10th May 2022)			SYLLABUS CHAPTER-2 Is Matter around Us Pure (till topics covered) CHAPTER-5 FUNDAMENTAL UNIT OF LIFE (till topics covered) CHAPTER-8 MOTION (till page 103 of ncert)
May 1-15				
No. of days-10				
Phy.	Chapter 8 Motion : circular motion	TBQ and assignment		
Chem.	Chapter 2 : Is Matter around us pure : physical and chemical changes, elements and compounds	TBQ and assignment		To prepare a mixture and compound using iron filings and sulphur powder
Bio.	Chapter 5 : Cell organelles - ER, golgi apparatus, lysosomes, mitochondria, plastids, vacuoles	Notes completion & Back exercises	Sketch and Label	
		ONLINE EDUCOSOFT ASSESSMENTS		
SUMMER VACATION				HOLIDAYS HOMEWORK
July 1-15				
No. of days-12				
Phy.	Chapter 9: Force and Laws of Motion : Balanced and Unbalanced forces, 1st law of motion, inertia of rest, inertia of motion and inertia of direction, inertia and mass	Intext Questions	Discussion with audio-visual aids	Activities given in ncert to be done in the classroom
Chem	Chapter 1: Matter in our surroundings : Physical nature of matter, characteristics of particles of matter, state of matter, diffusion	Intext Questions	Observation and hands on activity	Activities given in ncert to be done in the classroom
Bio.	Chapter 6: Tissues: Plant tissues-meristematic and permanent,	Notes Preparation, Intext Questions & Back exercises	Lecture cum demonstration	Permanent Slides :To identify parenchyma , collenchyma and sclerenchyma tissue in plants,
		ONLINE EDUCOSOFT ASSESSMENTS		
July 16-31				

No. of days-13				
Phy.	Chapter 9: Force and laws of motion: 2nd law of motion, momentum, 3rd law of motion	TBQ and assignment		To verify Newton's third law of motion
Chem.	Chapter 1: Matter in our surroundings: change of state of matter, Effects of change of pressure	Intext Questions		
Bio.	Chapter 6: Tissues: animal tissues - epithelial tissue, connective tissue, muscular tissue, nervous tissue	Notes completion & Assignment	Semantic map	Permanent Slides: Striped muscle fibres, cardiac muscle fibres and nerve cells in animals from
		ONLINE EDUCOSOFT ASSESSMENTS		
	CLASS TEST- II (25 JULY-2 AUG) 20 MARKS (2 AUG 2022)			SYLLABUS- CHAPTER- 1 Matter in our surroundings (till topics covered) CHAPTER-6 TISSUES (till topics covered) CHAPTER-9 FORCE AND LAWS OF MOTION (till topics covered)
August 1-15				
No. of days-9				
Phy.	Chapter 10 : Gravitation: Universal law of gravitation, acceleration due to gravity	Intext Questions		
Chem.	Chapter 1: Matter in our surroundings : evaporation, factors affecting evaporation.	TBQ and assignment		To determine the boiling point of water and melting point of ice.
Bio.	Chapter 15- Improvement in food resources :Introduction	Notes Preparation	KWL/KWLS	
		ONLINE EDUCOSOFT ASSESSMENTS		
August 16-31				
No. of days-13				
Phy	Chapter 10 : Gravitation: free fall, mass and weight	TBQ and assignment		
Chem.	Chapter 3 : Atoms and molecules : Laws of chemical combination	Intext Questions	Lecture	To verify law of conservation of mass
Bio.	Chapter 15- Improvement in food resources :improvement in crop yields, crop variety improvement	Notes Preparation, Intext Questions	Project based	
September 1 - 15				
No. of days-12				
Phy/Chem/Bio	REVISION OF SYLLABUS of HALF YEARLY EXAM			NOTEBOOK ASSESSMENT
	HALF YEARLY EXAMINATION (12 SEPT-28 SEPT 2022.)			
September 16- 30				
No. of days-13				
Phy./chem/bio	Half Yearly examination (Syllabus)			
	Chap 1 - Matter in our surroundings			
	Chap 2 - Is matter around us pure			
	Chap 5 - The fundamental unit of life			
	Chap 6 - Tissues			
	Chap 8 - Motion			

	Chap 9 - Force & laws of motion			
	Chap 10- Gravitation(upto page 138)			
October 1-15				
No. of days-8				
Phy.	Chapter 10 : Gravitation : Pressure in fluids,Buoyancy, floating and sinking Archimedes Principle	Intext Questions	Oservation based	1. To determine the density of given solid using spring balance and measuring cylinder 2.To establish the relation between the loss in weight of a solid when fully immersed in a) tap water b) strong salty water
Chem.	Ch 3- Atoms, atomic mass, molecules, molecular mass, mass number, valency, Chemical formula,	Intext Questions		To verify the law of conservation of mass
Bio.	Chapter 15- Improvement in food resources : crop production management,fertilizers, manure, irrigation, crop protection management	Notes Preperation, Intext Questions& Back exercises	KWL/KWLS	
		ONLINE EDUCOSOFT ASSESSMENTS		
October 16 - 31				
No. of days- 10				
Phy.	Chapter 11 : Work and energy : work,work done by a force, energy, forms of energy	Intext Questions	Lecture cum demonstration	
Chem.	Chapter 3: Molecular Mass and formula unit mass	TBQ and assignment		
Bio	Chapter 15 Animal Husbandry, cattle farming, poultry farming, fish production, bee keeping	Notes completion & Assignment	Project based	
		ONLINE EDUCOSOFT ASSESSMENTS		
November 1-15				
No. of days- 11				
Phy	Chapter 11 : Work and energy : K.E	Intext Questions		
Chem.	Ch 4- Structure of atom: thomson model	Intext Questions	Lecture	
Bio.	Ch-15 Recapitulation	Extra Questions	PQ4R	Revision - ch-15 Improvement of food Resources
		ONLINE EDUCOSOFT ASSESSMENTS		
CLASS TEST 3 (1- 9 NOV)				
November 16-30				
No. of days-13				
Phy.	P.E, Law of conservation of energy, power	TBQ and assignment		
Chem.	Chapter 4 : Structure of atom : Rutherford model, Bohr's model			
Bio.	Ch-5 Recapitulation	Blended Learning		
		ONLINE EDUCOSOFT ASSESSMENTS		
December 1-15				

No. of days-12				
Phy.	Chapter 12 - Sound : Production of sound propagation of sound, characteristics of sound.	Intext Questions	Lecture cum demonstration	To determine the velocity of a pulse propagated through a stretched string/slinky
Chem	Chapter 4 : Structure of atom: distribution of electrons, Sub atomic particles, valency			
Bio	Ch-6 Recapitulation		Blended Learning	
		ONLINE EDUCOSOFT ASSESSMENTS		
December 16-31				
No. of days-14				
Phy.	Chapter 12 - Sound : Speed of sound, reflection of sound,echo,	Intext Questions		To verify the laws of reflection of sound
Chem	Chapter 4 : Structure of atom: Isotopes, Isobars, applications of isotopes			
Bio	Revision		Blended Learning	
		ONLINE EDUCOSOFT ASSESSMENTS		
	CLASS TEST 4 (19-28 DEC)			SYLLABUS- CHAPTER-3 Left over topics and Ch 4- Structure of atom till thomson model CHAPTER-5 & Ch - 15 (Selected Topics topics) CHAPTER-11 WORK AND ENERGY (Rest topics)
JANUARY 1- 15	WINTER BREAK			
No. of days-3				
Phy	applications of reflection of sound reverberation	Intext Questions		
Chem.	Ch 4 - mass number	Intext Questions		
Bio.	Revision			
		ONLINE EDUCOSOFT ASSESSMENTS		
January 16-31				
No. of days-13				
Phy	range of hearing	TBQ and assignment		
Chem.	Atomic number	TBQ and assignment		
Bio.	Revision			
				NOTEBOOK ASSESSMENT
February 1-15				
No. of days-12				
Phy/Chem/Bio	REVISION			
February 16- 28				
No. of days-10				
Phy/Chem/Bio	ANNUAL EXAMS			
March				
No. of days-25	ANNUAL EXAMS			

