

ACADEMIC HEIGHTS PUBLIC SCHOOL

Jungle Dhusar, Gorakhpur

Session 2018-19

Syllabus of Class - IX, Subject - Physics

Month	W. Days	Topics	Activity	Remarks	Teachers Sing
April	23	1. Motion :	a) Graphical representation of		
		Distance and displacement, Velocity;	various types of motion.		
		Uniform and Non-Uniform motion along a	b) Demonstration of uniform		
		straight line; acceleration, Graphical	circular motion.		
		representation of motion			
May + June	17+12	Velocity - Time graphs for uniform and			
		non-uniform accelerated motion.			
		Eqn. of motion by graphical method			
Periodic Test - 1					
July	26	1. Motion (contd.) :	To plot distance – time graph		
		Equations of motion by graphical method,	and find speed.		
		uniform circular motion.	To plot velocity-Time graph and		
		2. Force and Laws of Motion :	acceleration		
		Force, Balanced and Unbalanced force. First			
		law of motion, Inertia & Mass.			
		Momentum, force and acceleration.			
		Laws of conservation of momentum,			
		Second law of motion, Third law of motion,			
		Action and Reaction.			
August	23	3. Gravitation :	d) To establish the relationship		
		Gravitation, Universal law of Gravitation,	between weight of a rectangular		
		Free fall body, Mass and Weight, Force of	wooden block using spring		
		Gravitation of the earth, acceleration due to	balance.		
		gravity, mass and weight, variation of g			

Sept	23	Revision			
Half Yearly					
Oct+Nov	24+20	Thrust & Pressure :			
		Thrust, Pressure, Pressure in fluid, Buoyancy, Archimedes Principle, Relative Density	10.4, 10.5, 10.6		
		Work & Energy :			
		Work, orkdone by constant force, Energy, Forms of energy			
		Law conservation of energy, Rate of doing work, Commercial units of energy	11.2, 11.3, 11.5, 11.6, 11.9		
Dec	25	Revision			
Periodic Test - 2					
Jan	24	Sound			
		Sound, Propagation, Sound Longitudinal, Wave, Characteristics of sound wave frequency, Amplitude speed, Speed of sound in different media, reflection of sound, Echo, Reverbration, Use of multiple reflection of sound, Range of hearing, Application of ultrasound, Sonar, Structure of Human Ear.	12.2, 12.4, 12.5		
Feb	24	Revision			
Annual Exam					

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Syllabus of Class - IX, Subject - Chemistry

Month	W.Days	Topics	Activity	Remarks	Teachers Sing
April + May	23 + 17	Chapter – Matter : Nature and Behaviour	To determine the melting and		
		Definition of matter Solid, liquid and Gas;	boiling point of ice(to be		
		Characteristics – shape, volume, density;	discussed in the class only &		
		Change of States of matter, effect of change of temperature and pressure on states of matter, evaporation, factors affecting evaporation, plasma, BEC.	not to be demonstrated) 1. To separate the components of a mixture of sand, common salt and ammonium chloride by sublimation.		
Periodic Test - 1					
July + Aug	26 + 26	Chapter - Nature of Matter :	1. To prepare:		
		Elements, Compounds, Mixtures.	a) Mixture b) Compound		
		Homogeneous mixture	using iron fillings and sulphur		
		Heterogeneous mixture.	powder		
		Solution, Concentration of solution, Colloids and Suspensions, Separation of components of a Mixtures, Physical change, chemical change, Metal, Non-metals, Metalloid.	1. To prepare: a) True solution of common salt, sugar and alum. b) Suspension of soil, chalk powder and fine sand in water. c) A colloidal of starch in water		
Sept	23	Revision			
Half Yearly Exam					
Oct	24	Atom and Molecule			
+	+	Laws of chemical combination	Verification of law of conservation of mass.		
Nov	20	Dalton's atomic theory			
		Atoms			
		Atomic symbols			
		Atomic mass of an elements			
		Molecule			
		Writing chemical formulae			
		Valence eletrons and valency			
		Ion			
		Chemical formulae for molecular compounds			
		Chemical formulae for ionic compounds			
		Molecular mass			
		Mole concept			

Periodic Test - 2					
Dec	25	Structure of the Atom			
+	+	Charged particles in matter			
Jan	24	Electrons or cathode rays			
		Protons or anode rays			
		Neutrons			
		Nucleus of an atom			
		Bohr's model of an atom			
		Valency, Atomic number, Mass number, Isotope, Isobar			
Annual Exam					

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Syllabus of Class - IX, Subject - Biology

Month	W. Days	Topics/Chapter	Activity	Remarks	Teachers Sing
April	23	Theme : The World of the Living	1.To prepare stained temporary		
May	17	Unit – III Organisation in the Living World	mounts of		
		Chapter 5	a) onion peel		
June	12	The Fundamental Unit of Life –What are living organisms made of, Structural organization of cell, Cell membrane, Cell wall, nucleus, Cytoplasm.	b) human cheek cell & to record their observation & draw labelled diagram		
		Cell (Contd..)			
		Cell organelles – Endoplasmic reticulum, Golgi bodies, Lysosome, Mitochondria, Plastids & Vacuoles	2. To determine the mass percentage of water imbibed by raisins.		
		Unit – III Organisation in the Living World			
		Chapter 6			
		Tissues – Are plants and animals made of same			
		type of tissues			
		Unit – III Organisation in the Living World			
		Chapter 6			
		Tissues	3. To identify parenchyma and sclerenchyma tissues in plants and to draw their labeled diagrams.		
		Plant Tissues – Meristematic , Simple &			
		Complex Permanent tissues in plants. Structure and function of Animal tissues – Epithelial tissue			
		Tissues (Contd..)	4. To identify striped muscle fibres and nerve cells in animals from prepared slides. To draw their labeled diagrams.		
		Structure and function of Animal tissues – Epithelial, Connective, Muscular, Nervous tissue.			

Periodic Test - I

July	26	UNIT – I – Food (Contd..)			
		Crop production management - nutrient management, use of fertilizers, manures, irrigation, cropping patterns. Crop protection management - protection from pests and diseases, Storage of grains , organic farming.	5. To test the presence of starch in given food sample.		
		Animal Husbandry- cattle farming, poultry farming(Egg and broiler production), Fish production (Marine & Inland fisheries). Bee keeping.	6. To test the presence of the adulterant metanil yellow in dal .		
Aug+Sept.	26+23	Theme - Food			
		UNIT – 1 Food			
		Chapter 15			
		Improvement in Food Resources-			
		Improvement in crop yields - Crop variety			
		improvement			
Half Yearly					

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Syllabus of Class - IX, Subject - S.Sc

Months	W. Days	Subject	Chapter Name	Remarks	Teachers Sing
April	23	History	The Making of Global World		
+		Geography	Resources and Development		
May	17	Civics	Power sharing		
		Civics	Federalism		
		Economics	Development		
June	12		Revision		
Periodic Test - 1					
July	26	Civics	Democracy and Diversity		
		Economics	Sectors of Indian Economy		
		Geography	Forest and Wild Life Resources		
August	26	History	Print culture and Modern World		
		Geography	Water Resource		
		Civics	Gender Religion and Caste		
		Economics	Money and Credit		
Sept	23		Revision		
Half Yearly Exam					
Oct + Nov	24+20	History	Work, Life and Leisure		
		Geography	Agriculture		
		Geography	Minerals and Energy Resources		
		Civics	Popular Struggles and Movements		
		Civics	Political Parties		
		Economics	Globlisation and The Indian Economy		
Periodic Test - 2					
Dec + Jan	25+24	History	The Nationalist Movement in Indo China		
		History	Nationalism in India		
		Geography	Manufacturing Industries		
		Geography	Lifelines of National Economy		
		Civics	Out comes of Democracy		
		Civics	Challenges of Democracy		
		Economics	Consumer Rights		
Feb	24		Revision		
Annual Exam					

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Syllabus of Class -IX, Subject - Hindi

Month	W. Days	f{kfrt	—frdk	O;kdj.k	Remarks	Teachers Sing
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April	23	ikB & 11 21 9			
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May	17	ikB & 1	ikB & 1	okD;] milxZ] izR;;		
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June	12	ikB & 31 4	ikB & 2	lekl		
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Periodic Test - 1					
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July	26	ikB & 11] 12	okD; Hksn] vyadj] i=		
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Aug	26	ikB & 13	ikB & 3	vyadki] il] in ifip:		
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Half Yearly								

Half Yearly						
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Sept	23	ikB & 5	ikB & 4	izfrosnu] lkj ys[ku		
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Oct	24	ikB & 6] 7	okP; fu:i.k		
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Nov	20	ikB & 14] 15	iqujko tUk		
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Syllabus of Class - IX, Subject - English

Month	W. Days	Book	Chapter	Remarks	Teachers Sing
April + May + June	22 + 17 + 22	Reader	1. A Triumph of Surgery		
		Text Book	1. A Letter to God		
			2. Nelson Mandela : Long Walk to Freedom		
			3. Two Stories about Flying		
			(i) His First Flight		
			(ii) Black Aeroplane		
			4. From the Diary of Anne Frank		
		Poem	1. Dust of Snow		
			2. Fire and Ice		
			3. A Tiger in the Zoo		
			4. How to Tell Wild Animals		
		Novel	Ch - 1 to 4 (The Story of My Life)		
		Grammar	Tense, Agreement of Verb, Verb Tree, Conditional Sentences, Sequence of Tense		
Periodic Test - 1					
July + Aug + Sept	26 + 26 + 23	Reader	2. The Thief's Story		
			3. The Midnight Visitor		
			4. A Question of Trust		
			5. Footprint without Feet		
		Text Book	5. The Hundred Dressess - I		
			6. The Hundred Dressess - II		
			7. Glimpses of India		
			(i) A Baker from Goa		
			(ii) Coorg		
			(iii) Tea from Assam		
		Poem	5. The Ball Poem		
			6. Amanda		
			7. The Trees		
			8. Animals		
		Drama	1. The Dear Departed		
			2. Julius Caesar		

		Novel	Ch - 5 - 8		
		Grammar	Letter Writing, Short Story Writing, Modals, Active, Passive, Reporting (Direct & Indirect), Clauses, Determiners, Preposition		
Half Yearly Exam					
Oct + Nov	24 + 20	Reader	6. The Making of Scientist		
			7. The Necklace		
			8. The Hack Driver		
		Text Book	8. Mijbil the Otter		
			9. Madam Rides the Bus		
			10 The Sermon at Benares		
		Poem	9. Fog		
			10. The Tell of Custard the Dragon		
		Novel	Ch - 9 - 11		
		Grammar	Transformation		
Periodic Test - 2					
Dec	25	Reader	9. Bholi		
		Test Book	11. The Proposal		
Jan	24	Reader	10. The Book that saved the Earth		
		Poem	11. For Anne Gregory		
Feb	24		Revision		
Annual Exam					

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Syllabus of Class - IX, Subject - Reasoning

Month	W. Days	Chapters Name	Remarks	Teachers Sing
April	23	Blood Relation		
		Direction Sense		
May	17	Change one word into another		
		Three Missing a Letter Make a Word		
June	12	Insert a letters		
		Odd one out		
Periodic Test - 1				
July	26	Matching Pairs		
		Series		
		Mathematical Reasoning		
Aug	26	Create Word		
		Dot Representation		
Sept	23	Which one is different		
		Analogy		
Half Yearly Exam				
Oct	24	What comes Next		
		Mirror and water Images		
Nov	20	Cube and Dice		
Dec	25	Analytical Reasoning		
Periodic Test - 2				