

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Jungle Dhusar, Gorakhpur

Session 2018-19

## Syllabus of Class - VIII, Subject - Physics

Month	W. Days	Topics	Activity
April	23	<b>Force and Pressure:</b> Idea of Force –	
		Push or Pull: change in speed, direction	
		of moving objects and shapes of objects	
		by applying force, contact and non	
		contact forces, forces are due to an	11.2, 11.3
		interaction.	11.6, 11.10
		<b>Types of forces:-</b> Muscular force,	
		Gravitational force, Electrostatic force,	
		Magnetic force, force of friction.	
		Pressure (Define & Unit), Idea of	
		pressure exerted by air/liquid,	
		Atmospheric pressure, Daily life	
		experiences	
		Pressure exerted by liquid/gases(Contd.)	
May	17	<b>Friction</b> : Definition, force of friction,	12.1, 12.4
		factors affecting force of friction,	
		friction-a necessary evil. Advantage and	
		Disadvantages of friction for the	
		movement of automobiles, aero planes and	
		boats. Ships: Increasing and decreasing	
		friction. Methods of reducing friction.	
June	12	Fluid friction	
		Revision	
<b>Periodic Test - 1</b>			
July	26	<b>Sound:-</b> Introduction, sound is produced	13.1, 13.3, 13.5, 1.10
		by a vibrating body, sound produced by	
		humans, sound needs a medium for	
		propagation, amplitude, time period and	
		frequency of a vibration, characteristics	
		of sound, we hear sound through our ears	
		(human ear), audible and inaudible	
		sounds.	
August	26	Chemical Effect of Electric Current :	14.2, 14.6
		Do liquids conduct Electricity, chemical	
		effect of electric current, conductors and	
		insulators, electrolysis, electroplating.	
		Good and poor conductors.	
Sept.	24		
<b>Half Yearly</b>			
Oct	24	Some natural phenomena charging	
		Charging by rubbing	
		Types of charge	15.2

		Trasfer of charge	15.5
		Lightning	
		Lithning conductor	
		Earthquaker	
Nov	20	Light	
		Light Laws of reflection	16.1
		Regular and diffused reflection	16.4
		Multiple Images	
		Kaleidoscope	
		Human eye	
		Braille	
Dec	25	Revision	
<b>Periodic Test - 2</b>			
Jan	24	Stars and the solar system	17.3
		The moon	17.4
		Moon's Surface	
		Constellahom	
		Ursa major	
		Cassion peia	
		The solar system	
		The placements	
		Asteroids	
		Meteorites	
		Revision	
Feb	24		
<b>Annual Examl</b>			

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## Syllabus of Class - VIII, Subject - Chemistry

Month	W. Days	Name of the Chapter/Topics	Activity
April + May + Jun	23+17+ 12	<b>Synthetic fibers and plastics</b>	
		Natural fibre and synthetic fibre, polymer; types of synthetic fibre : Rayon, nylon, acrylic, PET, characteristics of synthetic fibre; Plastic (Polythene, PVC, Bakelite, Melamine, Teflon), Types of Plastics : Thermo plastics and thermosetting plastic; Useful properties of plastic, Biodegradable and Non-biodegradable materials; Plastic and environment	Testing various materials for action of water, reaction on heating, effect of flame, tensile strength
Periodic Test - 1			
July + Aug	26 + 26	<b>Metals and Non-metals</b>	
		Element; types of element, metal, non metal and metalloids, physical properties of metal and non metal (Malleability, Ductility, Conductivity, Lustre, Strength, Sonorous and hardness); Chemical properties of metal and non metal, reaction with oxygen, water, acid and bases; Reactivity series of metal and displacement reaction of metals, uses of metal and non metal.	Experiments involving reactions with acids and bases
Sept	23	<b>Coal &amp; Petroleum</b>	
		Natural resources	To study the products obtained by destruction distillation of coal.
		Coal	
		Story of coal	
		Coke/coal tar, natural gas	
		Petroleum, Refining of petroleum	
		Natural Gas	
		Various constituents of petroleum and their uses	
Half Yearly Exam			
Oct + Nov	24 + 20	<b>Combustion and Flame</b>	
		Introduction, combustible and non combustible substances	Experiments with candles
		Different types of combustion	
		<b>Flame</b> : Different zones of candle flame	
		Differences between luminous and non luminous zones	
		<b>Fuels</b> : Characteristics of fuels, fire extinguisher and its types	
Periodic Test - 2			
Dec + Jan	25 + 24	<b>Pollution Of Air and Water</b>	
		Air pollution - contaminants and pollutants, causes, consequences and prevention of air pollution, Green house effect and its consequences.	Survey for pollution check at different times and different location
		<b>Water Pollution</b>	
		Definition, causes, consequences and prevention of water pollution, eutrophication and its harmful effects on aquatic life. Discussion of exercise.	Discussion on environment concerns
Annual Exam			

# ACADEMIC HEIGHTS PUBLIC SCHOOL

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## Syllabus of Class - VIII, Subject - Maths

Month	W. Days	Chapter Name	Period	Activity
April	23	1. Rational Numbers	11	
April	23	2. Exponents and Power	9	
Apr+May	23+17	3. Linear Equation in one variable	9	
		4. Understanding Quadrilaterals	10	To verify that the sum of interior angles of a quadrilateral is $360^\circ$ by cutting and pasting. To verify that (i) diagonals of a rectangle are of equal length (ii) diagonals of a square are of equal length.
June	12	5. Practical Geometry	9	To make the following geometrical shapes by paper folding and cutting. (i) A kite (ii) A rhombus
		Revision		
Periodic Test - 1				
July	26	6. Square and Square roots	14	To observe the following number patterns and generate it up to next three steps : (i) $1^2 = 1$ $11^2 = 1 \ 2 \ 1$ $111^2 = 1 \ 2 \ 3 \ 2 \ 1$ (ii) $1 + 3 = 4 = 2^2$ $1 + 3 + 5 + 9 = 3^2$ $1 + 3 + 5 + 7 + 9 = 4^2$
July+Aug	26+26	7. Cube and Cube roots	10	
Aug+Sept	26+23	8. Comparing Quantities	12	
		9. Algebraic Expression & Identities	14	
		Revision		
Half Yearly Exam				
Sept+Oct	23+24	10. Factorization	10	
Oct	24	11. Visualising Solid Shapes	8	To draw the front view, top view and side view of the two given shapes made by unit cubes. To make cubes and cuboids of given dimensions (i) $4 \times 3 \times 2$ (ii) $3 \times 2 \times 2$
Oct+Nov	24+20	12. Mensuration	18	To explore the relationship between (i) length (in cm) and perimeter (in cm)
Nov	20	Direct and Inverse Proportion	17	
		Revision		
Periodic Test - 2				

Dec	25	14. Introduction to graphs	13	To measure the time spent by student in the various activities on a particular day <b>(i)</b> school <b>(ii)</b> homework <b>(iii)</b> play <b>(iv)</b> sleep <b>(v)</b> watching TV <b>(vi)</b> Others Represent the information in a pie chart.
Jan	24	15. Playing with Numbers	14	
		16. Data Handling	6	
		Revision		
Annual Exam				

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Jungle Dhusar, Gorakhpur

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## Syllabus of Class - VIII, Subject - Biology

Month	W. Days	Topics/Chapter	Activity
April	23	<b>Crop Production and Management</b>	
		Agricultural practices, crop seasons.	
		Basic practices of crop production.	
		Preparation of soil.	
		Sowing.	
		Adding manures and fertilizers, irrigation.	
		Agricultural implements.	
		Inclusive: Geog- Rabi and Kharif crops, climatic conditions	
		Crop Production	To demonstrate that damaged seeds are lighter than healthy seeds.
		(Contd...)	
		Protection from weeds, harvesting, storage.	
		Increasing crop yield.	
		Food from animal sources.	Field trip: Visit to school garden.
		Notes: More examples of kharif & Rabi crops.	Field trip: Visit to dairy farm.
May +June	17+12	<b>Microorganisms Friend &amp; Foe</b>	
		Microorganisms.	To study microorganisms present in pond water. (plant specimens to be shown.)
		Where do microorganisms live?	
		Microorganisms and us.	
		Friendly Microorganisms.	
		Microorganisms: Friend & Foe	
		(Contd.)	
		Friendly microorganisms.	
		Harmful microorganisms.	
		Disease causing microorganisms in humans, animals & plants.	
		Food poisoning.	
		Food Preservation.	
		Nitrogen fixation and Nitrogen cycle	
		Inclusive teaching: To discuss the role of preservatives & the kind of reaction involved with food stuff.	
		Notes: labelling for Fig. 2.2, 2.3, 2.4, 2.5, 2.7 and 2.9	
		Definition of Antibiotics, antibodies carriers, preservatives.	
<b>Periodic Test - 1</b>			
July	26	<b>Conservation of plant and Animals</b>	
		Deforestation and its cause	Make a list of deforestation
		Consequences of deforestation	Make a list which show harm of animals due to deforestation
		Conservation of forest and wild life	
		Century, National park, biosphere reserve	Make a list of flora and funa of your
		flora and funa, red detabook, migration etc.	

August	24	<b>Cell Structure and Function</b>	
		Discovery of the cell, definition of cell.	To study unicellular organisms from permanent slide (Amoeba, Paramoecium)
		Instruments for studying cells.	
		Organisms show variety in cell number, shape and size.	
		Cell structure and function, tissues.	
		Parts of cell - cell membrane, cell wall, nucleus, cell organelles in plant and animal cell.	To study plant cell from onion peel.
		Differences between a plant cell and an animal cell.	
		Prokaryotic and Eukaryotic cells.	
		Cell division and growth.	
		Inclusive Teaching: Physics: to discuss the concept of magnification with reference to microscope.	
		Notes: Diagram of plant cell & animal cell.	
		Diagram of Prokaryotic & Eukaryotic cell.	
Sept.	23	<b>Revision</b>	
<b>Haly Yearly</b>			
Oct. + Nov	24+20	<b>Reproduction in Animals</b>	
		Modes of reproduction	Visit of a pond in rainy season to see the clusters of frog's eggs floating in water.
		Male and Female reproductive organs	
		Fertilization	
		Test tube babies	Try to collect egg of frog, lizard, butterfly hen, crow or any other birds.
		Internal and External Fertilization	
		Development of embryo, viviparous and obiparous	
		Binary fission, metamorphosis	
		Budding	
<b>Periodic Test - 2</b>			
Dec	25	<b>Reaching the age of Adolescence</b>	
		Puberty	Make a chart of height according to age.
		Change at puberty	
		Change in body shape, voice change, development of glands, development of sex organs, secondary sexual character	Draw a graph which show percentage of height with age.
		role of hormones, sex determination, reproductive health	Make a note on iodised salt.
Jan.	24	<b>Pollution of Air and Water</b>	
		Air Pollution	Write a note on air pollution due to automobiles
		How does air polluted	Make a table which show sources of pollution
		Green house Effects	
		Global Warming	Collect the water from different sources and compare on the basis of their smell and colour
		Water Pollution	
		Soil Pollution	
Feb.	24	<b>Revision</b>	
<b>Annual Exam</b>			

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## Syllabus of Class - VIII, Subject - S.Sc

Month	W. Days	Chapter Name	Subject	Activity
April	22	Colonisation of India (From Trade to Territory)	History	Write about the colonial system in india.
+		Fundamental rights and duties	Civics	Write a short note on drafting committee of Indian constitution and paste picture of the members
May	17	Resource & Human Resource	Geo	Make a poster on Natural resources.
June	9	Revision		
Periodic Test - 1				
July	26	When People Rebel	History	Write a short note on 1857 revolt and paste some pictures regarding that.
		Rulling the Countryside		
		Understanding Laws	Civics	Make a picture album on reforms done in India.
		Land, Soil, Water, Natural Vegetation and Wildlife	Geo	
Aug	24	Women, Caste and reform		
		Agriculture	Geo	Write about the Ravi and Kharif crops, paste the pictures also. OR Write a paragraph on Indian agriculture system and Draw the pictures of Indian village.
		Judiciary		
Sept	24	Revision		
Half Yearly Exam				
Oct	18	India After Independence		
		The making of national movement	History	Paste the pictures of the leaders who took part in National movement. Write about them also. OR Prepare a chart enlisting the national movements in India.
		Understanding our criminals justic system	Civics	Write a short note on Indian justic system and paste the pictures of the courts in India.
		Mineral and power resources	Geo	Make a poster on power resources
		Industries		
Nov	25	Indian after independence		
		Electoral Politics (IX)		
		Industries		
Periodic Test - 2				
Dec	23	Constitutional Design (IX)	Civics	Preapre a chart on Indian constitution.
		Democratic Rights		
		Popullation	Geo	Draw a population pyramicl of India and write about it
Jan	24	Nazism and the Rise of Hitler	History	Write about the working system of Hitler.
Feb	21	Revision		
Annual Exam				



# ACADEMIC HEIGHTS PUBLIC SCHOOL

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## Syllabus of Class - VIII, Subject - Computer

Month	W.Days	Chapter Name	Period
April	23	Table in Ms Access	14
May + June	17+12	Queries Form and Report	10
Periodic Test - 1			
July	26	Adobe Photoshop CS3	12
August	26	Working with Adobe Photoshop	8
Half Yearly Exam			
Sept.	23	List and Table in HTML	7
Oct	24	Learning Visual Basic 2008	8
Periodic Test - 2			
Nov.	20	Control in Visual basic 2008	8
Dec.	25	Internet Services	10
Jan.	24	Robotics	8
Annual Exam			

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Jungle Dhusar, Gorakhpur

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## Syllabus of Class - VIII, Subject - Reasoning

<b>Month</b>	<b>W. Days</b>	<b>Chapters Name</b>
April	23	Logical sequence of words
		Jumbled words
May	17	Simple letter codes
		Logical venn diagram
June	12	Clock
<b>Periodic Test - 1</b>		
July	26	Calender
		Puzzle Test
Aug	26	Which one is different
		Analogy
Sept	23	What comes next
		Direction sense
<b>Half Yearly Exam</b>		
Oct	24	Mathematical reasoning
Nov	20	Odd one out
		Matching pairs
<b>Periodic Test - 2</b>		
Dec	25	Series
		Paper Cutting
Jan	24	Mirror Images
		Cubes and Dice
Feb	24	Analytical Reasoning
<b>Annual Exam</b>		

# ACADEMIC HEIGHTS PUBLIC SCHOOL

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Syllabus of Class -VIII, Subject - Hindi

Month	W. Days	olar	O;kdj.k	Hkkjr dh [kks	ifj;kstuk dk;Z
April	23	1- /ofu ¼dfork½	1- Hkk"kk] cksyh] fyfi]	vgen uxj dk fdyk	1- Hkkjr ijokj jnk y/kq] /kjsyq o dqVhj m ksxks ds fodkl ds fy, fd;s tk jgs iz;klksa laaf/kk lfo=
		2- yk[k dh pwfM+;kj	O;kdj.k rFkk		
		3- cl dh ;k=k	2- o.kZ fopkj		
May	17	4- nhokuksa dh gLrh ½	3- 'kCn fopkj		
		5- fpfB~B;ksa dh vuwBh nqfu;k ¼fuca/k½	4- laf/k		2- /ofu iznq"k.k ij Hkk"kk] ys[ku izfr;ksfxrk dk vk;kstuA
June	12	6- Hkxoku ds Mkfd, ¼	5- 'kCn & Hksn % vFkZ ds vk/kkj ij	ryk'k	1- izR;sd Nk=ksa }kj viuh bPNkvksa dh lwph cukukA
Periodic Test - 1					
July	26	7- D;k fujk'k gqv tk, ¼fuca/k½	6- 'kCn fuekZ.k % milxZ		2- fo kfFkZ;ksa ls Lo ewY;kadu djokuk rFkk muls viuh ik;p detksfj;ksa ,oa fo'ks"krkvksa dh lwph cukukA
		8- ;g lcls dfBu le; ugha	7- 'kCn fuekZ.k % izR;;		
			8- 'kCn fuekZ.k % lekl i= ys[ku		
Aug	26	dchj dh lkf[k;kj	9- laKk	fla/kq /kkVh IH;rk	1- Nk=ksa }kj Hkkjr dh ;qok tula[;k o o~)
			10- laKk fodkj % fyax		2- taxZgr vk;dM+ks dh lgk;rk ls o`ksa dh fLFkfr dk vkdvu diokuk o
			11- laKk fodkj % opu		
			12- dkjd		
Sept	23	iqujko`fÜk	23- eqgkojs		nSfud thou esa flusek dk egRo fo"k; ij ys[k
		dkepsj	25- vifBr xn~;ka'k		
			30- i= ys[ku		
			31- izfronsu ys[ku		
Half Yearly Exam					
Oct	24	11- tc flusek us cksyuk lh[kk	13- loZuke	;qxksa dk nkSj	1- dkepsj dgkuh ,dy ifjokj dh dgkuh gS ;k la;qDr ifjokj dh bu
			14- fo'ks"k.k		
			15- fØ;k		

		lqnkek pfjr		u;h leL;k,i	2- fe=rk ls lacf/kr nks gks ,oa dforkvksa dk lap; dfj;sA
Nov	20	13- tgg; ifg;k gSA	16- dky	vafre nkSj & ,d] nks	L=h Lora=rk ij ,d ekSfyd ys[k fyf[k,A
		14- vdcjh yksVk	17- okP;		
			18- vfodkjh 'kCn		
Dec	25	15- lwj ds in	19- in ifjp;		1- nk=kSa n~okj vius ?kj vkSj d{kk dh fdLh oLrq ds ckjs esa d{kfu;k:A
		16- ikuh dh dgkuh	20- okD; fopkj		
			21- v'kqn~f/l 'kks/ku		
			22- fojke fpg~u		
Periodic Test - 2					
Jan	24	17- ckt vkSj lkj	24- vyadkj	ruko % nks i`"B	1- Lora=rk dh izsj.kk ls lacaf/kr dfork
		18- Vksih	26- vifBr xn~;ka'k		2- {kSf=, n~k xkjo dh cksyh esa mi;ksx gksus okys dqN vyx 'kCn dh lwph rS;ki di mudk eww
			27- Mk;jh		
			32- foKkiu jpuk		
			34- fuca/k ys[ku		
Feb	24	iqujko`fUk		iqujko`fUk	
Annual Exam					

# ACADEMIC HEIGHTS PUBLIC SCHOOL

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## Syllabus of Class - VIII, Subject - English

Month	W. Days	Test	Language
April	23	Honeydew - Lesson : 1 & 2	Lesson : 1 ,2, 3, Leave application
		Supplementary - Lesson : 1	
May	17	Honeydew - Lesson : 3	Lesson : 4, 5, 6 Comp. Report writing
		Supplementary - Lesson : 2	
June	12	Honeydew - Lesson : 4	Paragraph writing
July	26	Honeydew - Lesson : 5	Lesson : 7, 8, Letter writing (Personal)
		Supplementary - Lesson : 3	
Periodic Test - 1			
Aug	26	Honeydew - Lesson : 6	Lesson : 9, 10, Comp. Notice writing
		Supplementary - Lesson : 4	
Sept	23	Honeydew - Lesson : 7	Lesson : 11, 12, Comprehension
		Supplementary - Lesson : 5	
Half Yearly Exam			
Oct	24	Honeydew - Lesson : 8	Lesson : 13, 14, Message writing
		Supplementary - Lesson : 6	
Nov	20	Honeydew - Lesson : 9	Lesson : 15, 16,
		Supplementary - Lesson : 7	
Dec	25	Honeydew - Lesson : 10	Lesson : 17, 18, Writing E-mails
		Supplementary - Lesson : 8 & 9	
Periodic Test - 2			
Jan+Feb	24+24	Supplementary - Lesson : 10 + Revision	Revision
Annual Exam			