

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

Subject - Physics

Month	W. Days	Chapter/Topics	Activity		
April + May + June	24+15+8	<b>Heat and its effects–</b>	To show conduction or convection.		
		Heat (Concept of heat and temperature), Effects of heat,			
		Heat causes expansion, Hot and cold, Temperature, Thermometer, Different scales of temperature, Transfer of Heat, conduction, convection and Radiation.			
				Conductors and Insulators Applications of	To show clinical and laboratory thermometer.
				Transfer of heat. Types of clothes we wear in summer and winter	
<b>Periodic Test - 1</b>					
July + Aug	27+24	<b>Motion and time:</b>			
		What is motion? The states of rest and motion are relative, types of motion, slow and fast Motion & Time, Measurement of time, Simple Pendulum, Speed, Measuring speed, The use of graph paper, Distance – Time graphs.	To show oscillation of a simple pendulum.  To check measurement of length.		
<b>Half Yearly</b>					
Sept + OCT	22+21	<b>Electric Current and Circuits</b>			
		Electric circuit, symbols for elements of circuit, Heating effect of current, Principle of fuse, magnetic effect of current, Working of electric bell.	Making a simple electromagnet  Working of electric bell.		
<b>Periodic Test - 2</b>					
Nov + Dec	22+24	<b>Winds, Storms and Cyclones-</b>			
		Air is all around, air exerts pressure, Atmosphere, Atmospheric pressure, high speed winds are accompanied by reduced air pressure, movement of air, Air expands on heating, wind currents are generated due to uneven heating on the earth, Thunderstorm and cyclones. Destruction caused by cyclones, Effective safety measures against cyclones, Advanced Technology has helped.	Blowing b/w the balloons.		
Jan	22	<b>Light</b>			
		Rectilinear propagation of light, Reflection, certain surfaces reflect light, Real and virtual images, Newton's colour disc			
<b>Annual Exam</b>					

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

Subject - Chemistry

Month	W. Days	Chapter	Activity
April	24	Fibre to fabric	Collection of different samples of woollen and silk cloth
May+Jun	23	Acid bases and salts	Testing solutions of common substances with turmeric, litmus, china rose.
<b>Periodic Test - 1</b>			
July+Aug	44	Physical and Chemical changes	Rusting of iron, Burning of Mg ribbon, displacement of Cu from $\text{CuSO}_4$ solution
<b>Half Yearly</b>			
Sept + Oct + Nov	45	Water: A precious resource	Case study of people living in conditions of extreme scarcity of water, how they use water in a judicious way.
<b>Periodic Test - 2</b>			
Dec + Jan + Feb	50	Waste water story	Tracing the route of sewage in your building and trying to understand whether there are any problems in sewage disposal
<b>Annual Exam</b>			

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

## Subject - Maths

Month	W. Days	Chapter Name	Activity
April	24	1. Integers	
		2. Fractions & Decimals	To represent the products of the following decimal numbers on a grid paper (i) $0.3 \times 0.7$ (ii) $0.5 \times 0.5$
May	15	3. Data Handling	To compare the marks obtained in all the subjects by a student in the first and second term examinations by bar graph.
June	8	4. Simple Equation	
		Revision	
<b>Periodic Test - 1</b>			
July	27	5. Rational Number	
July+Aug	27+24	6. Exponents & Powers	
Aug+Sept	24+22	7. Algebraic Expressions	
		8. Visualising Solid Shapes	To draw a cube with an edge of 5 cm on an isometrix dot paper.
		Revision	
<b>Half Yearly Exam</b>			
Sept+Oct	22+21	9. Comparing Quantities	
Oct+Nov	21+22	10. Symmetry	
Nov+Dec	22+24	11. Lines & Angles	To verify that if two straight lines intersect at a point, then each pair of vertically opposite angles are equal.
			To verify that if two parallel lines are cut by a transversal, then (i) each pair of corresponding angles are equal (ii) each pair of alternate angles are equal (iii) each pair of interior angles on the same side of the transversal are supplementary
		12. Triangles & its properties	To verify that the sum of all interior angles of a triangle in $180^\circ$ .
		Revision	To verify that an exterior angle of a triangle is equal to the sum of the two interior opposite angles.
<b>Periodic Test - 2</b>			
Dec+Jan	24+22	13. Congruence of Triangle	
		14. Practical Geometry	To verify that a triangle can be drawn only if the sum of the lengths of any two sides is greater than the third side.
Jan	22	15. Perimeter and Area	
Feb	23	Revision	
<b>Annual Exam</b>			

**ACADEMIC HEIGHTS PUB**

Session 2019-20

Subject - Biology

Month	W. Days	Topics/Chapter
April	24	<b>Nutrition In Plants :</b>
		Mode of nutrition in plants
		Photosynthesis
		Other modes of nutrition in plants
		Saprotrophic nutrition, parasitic nutrition and symbiotic nutrition.
		Special mode of nutrition.
		How nutrients are replenished in the soil.
		<b>Inclusive Teaching</b> - Gardener
		Input regarding soil replenishment in garden by manure & fertilizer.
May + June	15+8	<b>Nutrition in Animals</b>
		Nutrition, digestion, food,
		digestion in human, digestive in part of body, steps of digestion
		Function of different part of digestive system
		digestion in grass eating animals
<b>Periodic Test - 1</b>		
July	27	<b>Weather, Climate &amp; Adaptations of</b>
		<b>Animals to Climate (contd.):</b>
		Climate – Factors determining climate.
		Climate & Adaptation – i) The polar region
		ii) The Tropical rainforest.
		iii) Desert
		Migration
		<b>Inclusive Teaching</b> – Geography
		To discuss weather & climate of different places.
		Value inculcated: Awareness about different life forms.
Aug + Sept	24+22	<b>Chapter : Soil :</b>
		Formation and composition of soil.
		Soil profile
		Types of soil
		Properties of soil
		Moisture in Soil
		Absorption of water by Soil
		Soil & crops.
		Soil erosion.

Half Yearly		
Oct. + Nov.	21+22	<b>Respiration in organisms</b>
		Transportation in animals in plants
		Types of respiration
		Breathing
		Breathing under water
		Blood, Blood vessels, Heart, Heart beat
		Excretions in animals
		Transport of substance in plants
		<b>Reproduction in plants :</b>
		Modes of reproduction in plants – Asexual
		reproduction- budding, fragmentation, spore
		formation. Vegetative propagation – natural
		and artificial methods of vegetative propagation
		Tissue culture.
		Sexual reproduction – flower, pollination,
		fertilization.
		Fruits and seed formation.
		Notes: Fertilisation & formation of zygote.
		<b>Contd. - Reproduction in plants</b>
		Seed dispersal
		Germination of seeds.
Periodic Test - 2		
Dec	24	<b>Transportations in Animals and Plants</b>
		Blood
		Blood vessel
		Veins
		Heart
		Artery
		Heartbeat
		Human excretory system
		Transport in plants
		Xylem
		Phloem
Jan	22	<b>Forest our life line</b>
		What is forest?
		Habitat, forest product, plants soil
		and decomposer in forest, balance of
		oxygen and carbon di oxide, soil erosion
		humans deforestation.
Feb	23	<b>Revision</b>
Annual Exam		

# LIC SCHOOL

## Activity

To observe the stomata in the leaf peel

Make a list of some animals and there food.

Look into mirror and count your teeth..

Make a list which show different types of teeth there number and work.

Draw a chart of human digestive system

Collect the sample of weather report of the last week from any news paper.

Make a date wise list of maximum temperature. Make a map which show the temperature of different status at a same day.

To demonstrate that Soil absorbs water, collect and observe different types of Soil (texture, colour etc).

To remove moisture from soil

Notes : Difference between clayey, sandy & loamy soil.

Value inculcated: Sense of conservation of natural resources.

To mark the polar region & tropical region in world map, with blue and green colour respectively.

To demonstrate soil profile with an activity.

Count your rate of breathing.
Take a deep breath and measure the size of chest.
Draw a chart of human respiratory system.
To observe the scars of potatoes.
To separate reproductive parts of a flower.
Draw a chart of Human Heart
Draw a chart of Human Excretory system
Make a list of the various things which you obtain from the forest.
Collect the some vegetables waste and cover them with soil and added some water and try to make compost

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

Subject - Social Science

Month	W. Days	Subject	Chapter/Topic	Activity
April	24	Geography	Environment	Prepare a scrapbook on different types of Environment
		History	The Delhi Sultanate, Rulers of Delhi from Slave Dynasty to Lodhi Dynasty, A closer look : Administration and consolidation under the Khiljis and Tuglaqs	Make a timeline of the Delhi Sultanate and write about them
Apr+May	15	Geography	Inside the earth Structure of the Earth Rocks	Pictorial representation of an Active Volcano
		Civics	Role of Govt. In Health, Healthcare in India, Public and private Health services, Kerela and Costa Rica approach	WHO is an agency of UNO that is helping India to eradicate Polio and Malaria. Find out more about WHO and the role it plays for making the world a disease free place to live in
June	8	Geography	Revision	
		History		
		Civics		
Periodic Test - 1				
July	27	Geography	Inside the Earth(Cont.) Uses of rocks Minerals Rock Cycle	Prepare a scrapbook on Rock cut temples in India
		History	The Mughal Empire , Who were the Mughals?, Rulers of the Mughal Empire, Mansabdars and Jagirdars, A closer look : Akbar's Policies	Paste the pictures of the Mughal Emperors and write about them.
		Civics	Akbar's Policies, Understanding Media, Different forms of Media, RTI Act, Public Opinion	Write a note in what ways does the media plays an important role in a democracy
Aug	24	Geography	Our changing Earth Volcanoes – types and distribution Earthquakes causes and effects	File preparation on Exogenic forces and their working
		History	Rulers & Buildings, Temple Construction in the early eleventh century, Building temples, mosques and Tanks.	Some of the monuments mentioned in the lesson are UNESCO world heritage sites, make a list of ten such monuments in India
		Civics	How the state Govt. works, The state Legislation, Federal System, Process of Making Laws	Write a short note on the working of the state government



Sept	22	Geography	Our changing Earth(cont.) Work of Rivers, wave, Ice and Wind.	
		History	Devotional Path to Divine, The Idea of Supreme God, Bhakti in South India, Nath panthis, Siddhas and Yogis	Write about the Bhakti Saints of North India and paste the pictures of the Saints
Oct	21	Geography	Natural vegetation and wildlife. Forest types and Importance of grasslands	Prepare an album on the species of the endangered wildlife
		Civics	Understanding Secularism, Need for secularism in India, Secularism and constitution	Write a note on why secularism is important for a state like India
<b>Half Yearly Exam</b>				
Nov	22	Geography	Natural vegetation and wildlife(cont.) Wildlife - Significance and conservation	
		History	18th Century Political Formation, The crisis of the empire and the later Mughals, The old Mughal provinces	Sawai Raja Jai Singh founded the pink city Jaipur. Collect pictures of some monuments found in this city and paste them
Dec	24	Geography	Human Environment Intersection. Tropical and Subtropical regions Amazon Basin wildlife, Crops grown, People	
		Civics	Parliamentary Govt. & Executive, Features of the Parliament, Rajya Sabha & Lok Sabha, Powers of the President and the Prime minister	Write a note on which is more powerful, the Legislature or the Executive
<b>Periodic Test - 2</b>				
Jan	22	Geography	Human Environment Intersection. Tropical and Subtropical regions. Brahamaputra Basin wild life. Crops grown, People	Map Work on Tropical and Sub Tropical Regions
		History	Ruling the countryside, Revenue for the company, Crops for Europe, Indigo on the land of Riots	Find out more about the Champaran movement and Mahatma Gandhi's role in it
Feb	23	Geography	Resources and Human Resources.	
			Colonisation of India and Rural life and Society	
<b>Annual Exam</b>				

**ACADEMIC HEIGHTS PUBLIC SCHOOL**

Session 2019-20

Subject - Computer Science

Month	W. Days	Chapter/Topic	Activity
April	24	Number System	Lab Practical
May	15	Working in Windows 7	Lab Practical
June	8	Formulas and Functions	Lab Practical
<b>Periodic Test - 1</b>			
July	27	Formulas and Functions	Lab Practical
Aug	24	Using Excel in Database	Lab Practical
		Advance feature of Excel	Lab Practical
Sept	22	Working with Flash CS3	Lab Practical
		Revision	
<b>Half Yearly Exam</b>			
Oct	21	Working with layers	Lab Practical
Nov	22	Conditionla control Statements	Lab Practical
		Looping Statements	Lab Practical
Dec	24	Graphics in QB64	Lab Practical
<b>Periodic Test - 2</b>			
Jan	22	Internet Services	Lab Practical
		The Virus	Lab Practical
Feb	23	Project work and Revision	Lab Practical
<b>Annual Exam</b>			

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

Subject - Reasoning

Month	W. Days	Chapters Name
April	24	1. Which one is different
May	15	2. Analogy
		3. What comes next
June	8	3. What comes next
<b>Periodic Test - 1</b>		
July	27	4. Break the codes
Aug	24	5. Mathematics reasoning
Sept	22	6. Direction sense
<b>Half Yearly</b>		
Oct	21	7. Analytical reasoning
Nov	22	8. Mirror images
Dec	24	9. Folded in
Jan+Feb	22+23	Practice
<b>Annau Exam</b>		

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

Subject - English

Month	W. Days	New Gem's English Reader (Literature)	Poem	Grammar
April	23	1. Black Beauty	2. The Flower School	1. Noun
		2. Brave Manju		2. Pronoun
May	15	4. Three of Table		3. Adjectives
				4. Verbs : Transitive and Intransitive
June	8		5. Scrpching the Tiger's Back	5. Verbs : Tenses and Time
<b>Periodic Test - 1</b>				
July	27	6. Agrain as Big as a Hen's Egg	7. Po a Butterfly	6. Verbs : Finite and Non-finite
		8. Harold Our Honsbill		7. Subject Verb Agreement
				24. Active and Passive voice
Aug	24	10. The Signal-1	Rain in Summer	8. Articles
		11. The Signal-2		9. Determiners
				25. Direct and Indirect speech
Sept	23	13. Saving My Friend Ellen	12. The Pied Piper of Hamelin	12. Modal Auriliaries
				13. Phrasal Verbs
<b>Half Yearly Exam</b>				
Oct	21	15. The Milkman of India	14. The Laburman	14. Adverbs
				16. Preposition
				17. Conjunction
Nov	22	18. Learning to be a Lady	17. Colonel Fazac Kerley Butterworth - Toast	18. Sentence Kinds : Basedon meaning
			19. Friends and Flatteress	21. Sentence Kinds : Based structure
Dec	24	20. Getting Ready for Adventures	21. The Nightingale and the Glow-Worm	19. Phrases and clauses
				22. Relative Pronouns and classes
<b>Periodic Test - 2</b>				
Jan	22			28. Word formation
				29. Vocabulary
				Unseen Passage
				Revision
<b>Annual Exam</b>				
<b>Activity</b>				
Apr	Importance of 'Discipline'.			
Jul	Importance of 'Daily Routine'.			
Aug	Poster writing (Go Green, clean India, Green India)			
Oct	Speech Writing			
Nov	Email witing to your friend			
Dec	Group work playing with 'Affixes censines suffix and prefix.			
Jan	Improving vocabulary Antonyms and Synonyms.			

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

## Subject - Art and Craft

Month	W. Days	Particulars	Learning outcome
April	24	Unit : 1	
		Introduction	
		Elements of Art	Sketching
		Principles of composition	
May	15	Perspective, Linear, Angular Aerial	Colouring
June	8	Unit : 2	
		Study of Nature	
		Flowers, Trees, Vegetables	Composition
<b>Periodic Test - 1</b>			
July	18	Flower composition	
		Landscape	
Aug	24	Unit : 3	
		Birds & Animals	Sketching colouring
		Birds & Animals in different Textures	
Sept	22	Unit : 4	
		Human Figures & Features	Sketching
		Parts of face, Portraits cartoon drawing	
<b>Half Yearly Exam</b>			
Oct	21	Unit : 5	
		Still life composition	
		Still life study in water colour, oil pastel	Craft
Nov	22	Unit : 6	
		Designs & Patterns	
		Floral, Geometrical	Craft
		Mehandi designs, calligraphy	
		Poster making	
Dec	24	Unit : 7	
		R' world of recreation	Craft
		Collage, paper flowers	
Jan	22	Meenakari, decorative cane	
		Unit : 8	
		Art gallery	Board making
		Indian art & culture	
		State art	
<b>Periodic Test - 2</b>			
Feb	23	Rangoli, Textiles	
		International Art	
<b>Annual Exam</b>			

# ACADEMIC HEIGHTS PUBLIC SCHOOL

Session 2019-20

Subject - G.K.

Month	W.D	Chapter Name/Content
April	24	Animal mix up, Around India, Science mix up, Music In India, National Sports, Hybrid Animals
April + May	24+15	Residents of India, Space Quiz, Arts and Craft, Sobriquets of the Sports stars, Green records, Great thinkers
June	8	Great composers, Indian Woman in Sports, Full forms, Mighty mountains, World of religions, Ruling the tech world, Unique Dance forms
<b>Periodic Test - 1</b>		
July	27	Martial Arts, Natural Disasters, Famous forts, Book Club, Bollywood, Amazing Architectures, Child Actors, Use your Brain
Aug	24	Etiquette on the Net, Famous cities of the world, Test Paper, Marine World, Hill stations of India, Atoms and Molecules,
Sep	22	Art gallery, Football Fever, Awesome Australia, Figure it out
<b>Half Yearly Exam</b>		
Oct	21	Colourful Languages, Overcoming Obstacles, Rolling rivers, Indians in the news, Scientific unit
Nov	22	Solve the mystery, Athletics, Keeping the air clear, Abode of snow, IT quiz, Women Writers,
Dec	24	Women Writers, Centre Stage, Sudoku, Indian States
<b>Periodic Test - 2</b>		
Jan	22	Epic Tales, Adventure Sports, Nobel Laureates, Coded, Cine Magic
Feb	23	Thinking Economics, Quiz on Eastern India, National Integration, Test paper
<b>Annual Exam</b>		