



COLUMBIA FOUNDATION SCHOOL

D – Block, Vikas Puri, New Delhi - 110018

SYLLABUS : (2019-20)

Class – IX

Features & Guidelines

Complexity / Difficulty Level		
Level	Description	Notes
1	High (H)	Topic needs more attention
2	Medium (M)	Needs moderate attention
3	Easy (L)	Simple topic

- High Level of Difficulty implies more practice and parental guidance towards the topic.
- Classes for subjects like computer, Moral Science, General Knowledge, Drawing and Music are conducted once a week. Hence, the schedule is planned accordingly.
- In English, we have categorized the skills such as Reading, Writing, Vocabulary, Grammar, Speaking, and listening so that the child has a holistic approach towards the language.
- All the activities are relevant to the topic and are planned based on its difficulty level.
- Group activities will instill qualities such as teamwork, sharing and respecting others' opinion among the students.
- Most of the activities help to bridge the gap between theory and practical connecting the students to real life processes.
- Constant recapitulation of the topics helps in proper comprehension and retention of the concepts.
- All the activities in mathematics are designed to erase off fear from the minds of the learners towards the subject.
- Please refer to the syllabus before contacting us for any queries related to the syllabus.

ENGLISH - IX

Month	Book	Topic	Grammar / Writing
April	Beehive Moments	1. The Fun they Had Poem – The Road Not Taken 1. The Lost Child	Integrated Grammar, Letter to Editor
May	Beehive	2. The Sound of Music a. Evelyn Glennie b. Bismillah Khan	Determiners, Sentence Reordering
July	Beehive Moments	3. The Little Girl P. Rain on the Roof 3 The Adventures of Toto 4 Iswaran the Story Letter	Modals, Article Writing
Aug	Beehive Moments	5 A Truly Beautiful Mind P. The Lake Isle of Innisfree 3 In the Kingdom of Fools	Reported Speech, Tenses
Sept.	Beehive Moments	6 The Snake & The Mirror P. A Legend of the Northland 7 My Childhood P. No Men are Foreign 2 The Happy Prince	Story Writing
Oct.	Beehive Moments	7 Packing P. The Duck & The Kangaroo 8 Reach for the Top I Santosh Yadav II Maria Sharapova 6. Weathering the Storm in Ersama	Non-Finites, Prepositions, E-mail
Nov.	Beehive Moments	9 The Bond of Love P. The Snake Trying 7 The Last Leaf	Active Passive, Diary Entry
Dec.	Beehive Moments	10 Kathmandu – A Slumber did My Spirit Seal 8 A House is not a Home	Letter Writing
Jan.	Beehive Moments	11 If I were you 9 The Accidental Tourist 10 The Beggar	Integrated Grammar (Revision)
Feb./ Mar.	Revision	Revision of whole syllabus	

MATHEMATICS – IX

Month	Topic	Exam.
April & May	Ch-01: Number System Ch-02: Polynomials Ch-03: Co-ordinate Geometry	UT - 1 (40 Marks)
July	Ch-04: Linear Equation in two Variables Ch-05: Introduction of Euclids Geometry Ch-06: Lines and Angles Ch-12: Herons Formula	UT - 2 (40 Marks)
Aug. & Sept.	Ch-07: Triangles Ch-08: Quadrilaterals Ch-15: Probability <i>Syllabus for SA1 – Entire syllabus covered till now.</i>	SA – 1 (80 Marks) Total (80 + 10+5+5) Marks
Oct.- Nov. & Dec.	Ch-09: Area of Parallelograms & Triangle Ch-10: Circles Ch-13: Surface Area and Volume	-
Jan.	Ch-11: Construction Ch-14: Statistics	UT - 3 (40 Marks)
Feb.& Mar.	<i>Entire syllabus covered till now.</i>	SA – 2 (80 Marks) Total (80 + 10+5+5) Marks

Internal Assessment		20 Marks
Pen Paper Test and Multiple Assessment (5+5)		10 Marks
Portfolio		05 Marks
Lab Practical (Lab activities to be done from the prescribed books)		05 Marks

PHYSICS - IX

Month	Topic	Activity
April	1. Motion: Scalar & vector quantity, Motion-uniform and non-uniform, acceleration, retardation & non-uniform retardation.	Difference between distance & displacement.
June & July	Motion: Speed, uniform & non uniform speed, velocity-uniform and non-uniform, speed-time graph, velocity time graph of motion.	Distance & displacement uniform motion speed & velocity acceleration
Aug./ Sept.	Force & Law of Motion: Force-balanced & unbalanced force, Newton's 1 st Law, Newton's 2 nd Law and Newton's 3 rd Law. Impulse, Momentum, Application based on Newton's Law of Motion. Gravitation: Gravity, gravitation, universal Law of gravitation.	-
Sept.	Revision / H.Y. Exam.	
Oct.	Numerical base of Newton's Law of gravitation equation of motion under influence of gravitational force.	To find density of water and other substances.
Nov.	Law of Floatation: Archimedes Principle. Application based upon them.	Verification & Archimedes principle.
Dec.	Work, power & energy work done =+ ve & -ve, Energy-kinetic energy & potential energy. Derivation KE & PE. Power, commercial unit of power.	-
Jan.	Sound: Nature of wave, Longitudinal wave, transverse wave, compression & rarefaction, crest, trough, amplitude, frequency, application of waves, pitches, to find velocity of pulse in string etc.	Verification of reflection of sound.
Feb.	Final Exam.	

CHEMISTRY – IX

Month	Topic	Activity
Mar. / April	Ch -1: Matter & Its surroundings.	To find the melting & boiling point of water.
May	Ch -2: Is matter around us pure? Topic: Properties of metals & non-metals, elements & compounds.	To study the difference between mixtures & compounds.
July	Ch -2: Cont..... Topic: Properties of solutions colloids & suspensions.	To study the properties of colloids, suspension & solutions.
Aug.	Ch.-2: Cont... Topic: Separation tech. Phys. & Chem. changes	To separate the components of a mixture of camphor, salt & sand.
Sept.	Revision / H.Y. Exam.	
Oct.	Ch -3: Atoms & Molecules. Topic: Laws of chemical combination, Daltons atomic theory.	To study various types of reactions.
Nov.	Ch -3: Cont..... Topic Symbols, atomic mass, concept of molecule ;	-
Dec.	Ch -3: Cont..... Topic: Calculation of molecular mass, mole concept, writing the chemical formula. Ch-4: Structure of Atom. Topic: Discovery of Electron protons & Neutrons	-
Jan.	Ch- 4: Cont..... Topic: Thomson & Rutherford's Model of Atom ; Bohr's model of atom, atomic properties, Isotopes & Isobars	-
Feb./ March	Revision / Final Exam.	

BIOLOGY – IX

Month	Topic	Activity
April & May	Ch-1: Fundamental Unit of Life	<ul style="list-style-type: none"> • To prepare slide of onion peel and cheek cells. • Study osmosis with resins
July	Ch-2: Tissues	<ul style="list-style-type: none"> • To study different kind of tissues from slides
Aug.	Ch-15: Improvement in Food Resources	<ul style="list-style-type: none"> • To study about adulteration in food sample (Different) • To study Presence of starch
Sept.	Revision / Half Yearly Exam.	
Oct. / Nov.	Ch-5: Biological Diversity	<ul style="list-style-type: none"> • Prepare slides on characteristics of various organisms • To study plant & animal specimen
Dec.	Ch-3: Why do you fall ill?	–
Jan.	Ch-4: Natural Resources	–
Feb./ March	Revision / Final Exam	

COMPUTER – IX

Month	Topic	Activity
Mar./ Apr.	Ch. - 1 Knowing the Computer System	Paste pictures of 5 input devices & 5 output devices
May	Ch. - 2 Knowing the software	Write about any five mobile applications (Pros & cons)
R E V I S I O N		
July	Ch-3 Computer Networking Ch-4 Multimedia Ch-5: Internet Chat and Social Networking	<ul style="list-style-type: none"> Write advantages & disadvantages of various computer networks Search any 5 tools used for multimedia Create a tree by pasting logo of various Apps. On its branches
Aug.	Ch-6: Introduction to cyber safety Ch-7: Virus & Malware	<ul style="list-style-type: none"> Make a Poster on cyber safety Make a chart on steps to prevent your system from virus <p><i>Submission of Above mention Activities</i></p>
R E V I S I O N		
Sep.	Ch-8: Introduction to Word processing	Term I Practical Exam Write a paragraph on any topic of your choice
Oct.	Ch.– 9 Formatting Documents Ch. – 10 Adding effects to text	<ul style="list-style-type: none"> Format the paragraph with various formatting styles (Bold, Italic, underline, heading size, color etc.). Design a flowchart of various types of software by using various shapes.
Nov.	Ch. – 11 Presentation Tools MS-PowerPoint Ch. – 12 Animations in Presentations	<ul style="list-style-type: none"> Create a presentation on any topic Insert Transition styles in presentation
R E V I S I O N		
Dec.	Ch-13 Spreadsheet Tools MS-Excel Ch-14 Editing & formatting Worksheets Ch-15: Formulas, Functions and Charts Ch-16: Introduction to scratch	<ul style="list-style-type: none"> Create an Excel sheet on Student's information. Modify above Spreadsheet by using cell borders, merge cells. Calculate the result of the students by applying formulas, and evaluate the result by using bar charts and pie charts. <p><i>Submission of Final Practical file with softcopy and Printouts.</i></p> <ul style="list-style-type: none"> Create a small moving scratch and saying hello for 10 seconds.
Jan	R E V I S I O N	

SOCIAL SCIENCE - IX

Month	NCERT Book	Topic	Activity
Mar/ Apr.	Geography Economics	Ch-1 India- Size & Location Ch-2 Physical Features of India Ch-1 The story of Palampur	Map work.
May	History	Ch-1 The French Revolution	Project work. Disaster Management.
July	Civics Geography Economics	Ch-2 What is Democracy? Why Democracy? Ch-3 Drainage Ch-2 People as Resource.	Map work.
Aug.	History Civics	Ch-2 Socialism in Europe & Russian Revolution Ch-3 Framing of the Indian Constitution.	-
Sept.	Revision / H.Y. Exam.		
Oct.	Geography History Civics	Ch-4 Climate Ch-3 Nazism & the Rise of Hitler Ch-4 Electoral Politics	-
Nov.	History Economics Geography	Ch-4 Forest Society & Colonialism Ch-3 Poverty as Challenge Ch-5 Natural Vegetation & Wildlife.	Map work.
Dec.	Civics Geography	Ch-5 Working of Institutions. Ch-6 Democratic Rights Ch-6 Population	Map work.
Jan.	Economics	Ch-4 Food security in India	
Feb./ March	Revision / Final Exam. -		

Weightage:

History - 20 Marks
Geo. - 20 Marks
Civics - 20 Marks
Eco - 20 Marks

Periodic Test 40 Marks
Half Yearly / Annual Exam. 80 Marks

SOCIAL SCIENCE - IX

List of Map Items for Social Science

A Subject – History

Chapter-1: The French Revolution

Outline map of France (For locating and labelling/Identification)

- Bordeaux
- Nantes
- Paris
- Marseilles

Chapter-2: Socialism in Europe and the Russian Revolution

Outline map of World (For locating and labelling/Identification)

- Major countries of First World War
(Central Powers and Allied Powers)
Central Powers - Germany, Austria-Hungary, Turkey (Ottoman Empire)
Allied Powers - France, England, (Russia), America

Chapter-3: Nazism and the Rise of Hitler

Outline map of World (For locating and labelling/Identification)

- Major countries of Second World War
Axis Powers – Germany, Italy, Japan
Allied Powers – UK, France, Former USSR, USA
- Territories under German expansion (Nazi power)
Austria, Poland, Czechoslovakia (only Slovakia shown in the map), Denmark, Lithuania, France, Belgium

B Subject - Geography

Chapter 1: India - Size and Location

1. India-States with Capitals, Tropic of Cancer, Standard Meridian, (Location and Labelling)

Chapter 2: Physical Features of India

1. Mountain Ranges: The Karakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Western & Eastern Ghats
 - Mountain Peaks - K2, Kanchan Junga, Anai Mudi,
 - Plateau - Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau
 - Coastal Plains - Konkan, Malabar, Coromandal & Northern Circar (Location and Labelling)

Chapter 3: Drainage (Identification only)

- ✓ The Himalayan River Systems - The Indus, The Ganges, and The Satluj
- ✓ The Peninsular rivers - The Narmada, The Tapi, The Kaveri, The Krishna, The Godavari, The Mahanadi

Lakes: Wular, Pulicat, Sambhar, Chilika, Vembanad, Kolleru

Chapter 4: Climate

1. Cities to locate: Thiruvananthapuram, Chennai, Jodhpur, Bangalore, Mumbai, Kolkata, Leh, Shillong, Delhi, Nagpur (Location and Labelling)
2. Area receiving rainfall less than 20 cm and over 400 cm (Identification only)

Chapter 5: Natural Vegetation and Wild Life

- Vegetation Type : Tropical Evergreen Forest, Tropical Deciduous Forest, Thorn Forest, Montane Forests and Mangrove-Forest for identification only
- National Parks : Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal & Manas
- Bird Sanctuaries: Bharatpur and Ranganthit
- Wild life Sanctuaries: Sariska, Mudumalai, Rajaji, Dachigam (Location and Labelling)

Chapter 6: Population (Location and Labelling)

- The state having highest and lowest density of population
- The state having highest and lowest sex ratio
- Largest and smallest state according to area

ARTS & CRAFT – IX

Term	Month	Art	Craft
Term-I	Apr. May	<ul style="list-style-type: none"> • Introduction – Elements of art • Colour wheel • Texture introduction 	<ul style="list-style-type: none"> • Canvas painting • Dot painting on pebbles • Door mat using waste clothes.
	July - Aug.	<ul style="list-style-type: none"> • Different texture • Still life • Object composition 	<ul style="list-style-type: none"> • Creating own comic book • Illustration of story on hard board
	Sep.	<ul style="list-style-type: none"> • Human sketches • Nature study with charcoal 	<ul style="list-style-type: none"> • Cross stitch design on jute cloth.
Term-II	Oct. - Nov.	<ul style="list-style-type: none"> • Portrait • Awareness Poster 	<ul style="list-style-type: none"> • Book cover designing
	Dec. - Jan.	<ul style="list-style-type: none"> • Folk art 	<ul style="list-style-type: none"> • Logo design .
	Feb.	Different styles of calligraphy.	-

कक्षा- नवीं हिन्दी पाठ्यक्रम

माह	स्पर्ष	संचयन	व्याकरण
अप्रैल	रैदास के पद	एसाइमेंट	स्वर व्यंजन वर्ण विच्छेद
मई	दुख का अधिकार रहीम के पद	गिल्लू	नवता शब्द रचना उपसर्ग प्रत्यय
जुलाई	एवेरेस्ट मेरी शिखर यात्रा आदमी नामा		संधि विच्छेद
अगस्त	तुम कब जाओगे अथिति	—	पत्र, अनुच्छेद श्रवण कौशल
सितंबर		—	संवाद लेखन, सूचना लेखन
अक्टूबर	एक फूल के चाह	—	अपठित गद्यांश अनुच्छेद
नवम्बर	कीचड़ का काव्य	हामिद खां	विराम चिह्न
दिसम्बर	अग्नि पथ धर्म के आइ	दिल जल उठे	विज्ञापन लेखन
जनवरी	शुक्रतारे मान समान इलाके में	एसाइमेंट	पुनरावृत्ति
फरवरी	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति