



COLUMBIA FOUNDATION SCHOOL

D – Block, Vikas Puri, New Delhi - 110018

SYLLABUS : (2018-19)

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

| Month | Book | Topic | Grammar/Writing |
|---------------|--------------------|---|--------------------------------------|
| April | Beehive Moments | 1. The Fun they Had Poem – The Road Not Taken 1. The Lost Child | Determiners Notice Writing |
| May | Beehive Moments | 2. The Sand of Music a. Evelyn Glennie b. Bismillah Khan 2. The Adventures of Toto | Message Writing |
| July | Beehive Moments | 3. The Little Girl P Rain on the Roof 3 Iswaran the Story Letter | Modals Article Writing |
| Aug | Beehive Moments | 4 A Truly Beautiful Mind P. The Lake Isle of Innisfree 3 In the Kingdom of Fools | Reported Speech Editing |
| Sept. | Beehive Moments | 5 The Snake & The Mirror P A Legend of the Northland 6 My Childhood P No Men are Foreign 2 The Happy Prince | Sentence Reordering 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 | Verb Forms |
| 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 | E-mail Letter Writing |
| Jan. | Beehive Moments | 11 If I were you 9 The Accidental Tourist 10 The Beggar | - |
| Feb./ Mar. | Revision | Revision of whole syllabus | - |

हिन्दी

| माह | स्पर्ष | संचयन | व्याकरण |
|---------|---|-----------------------------|-------------------------------------|
| अप्रैल | रैदास के पद, धूल | एसाइमेंट | स्वर, व्यंजन, वर्ण-विच्छेद |
| मई | दुख का अधिकार, रहीम के पद | गिल्लू | नुक्ता, शब्द रचना (उपसर्ग, प्रत्यय) |
| जुलाई | एवरेस्ट मेरी शिखर यात्रा आदमी नामा | स्मृति | संधि-विच्छेद |
| अगस्त | तुम कब जाओगे अतिथि | कल्लू कुम्हार की उन्नकोटि | पत्र, अनुच्छेद, वाचन-श्रवण कौशल |
| सितंबर | वैज्ञानिक चेतना के वाहक चंद्रशेखर वेन्कटरमन | मेरा छोटा सा निजी पुस्तकालय | संवाद-लेखन, सूचना-लेखन |
| अक्टूबर | एक फूल की चाह | | अपठित-गद्यांश-पद्यांश |
| नवम्बर | कीचड़ का काव्य | हामिद खाँ | विराम-चिह्न |
| दिसम्बर | अग्नि पथ, धर्म की आड़ | दिए जल उठे | विज्ञापन-लेखन |
| जनवरी | शुक्रतारे के समान नए इलाके में | एसाइमेंट | पुनरावृत्ति |
| फरवरी | पुनरावृत्ति / वार्षिक परीक्षा | | |

- स्वाध्याय हेतु (गद्यांश व काव्यांश के प्रश्न)

MATHEMATICS

| Month | Topic | Practical |
|-------|--|-----------------|
| Apr. | Ch-1 Number System Ch-2 Polynomials Ch-3 Co-ordinate Geometry | Activity – 1, 2 |
| May | Ch-5 Introduction of Euclids Geometry Ch-4 Linear Equation in two Variables | Activity – 3, 4 |
| July | Ch-6 Lines and Angles Ch-7 Triangles | Activity – 5, 6 |
| Aug. | Ch-12 Herons Formula Ch-8 Quadrilaterals | Activity – 7 |
| Sept. | Revision / H.Y. Exam. | |
| Oct. | Ch-9 Area of Parallelograms & Triangle | - |
| Nov. | Ch-10 Circles Ch-11 Construction | Activity - 8 |
| Dec. | Ch-13 Surface Area and Volume | Activity - 9 |
| Jan. | Ch-14 Statistics Ch-15 Probability | Activity - 10 |
| Feb. | Revision | - |
| March | Revision & Final Exam. | - |

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 etc. | To find the velocity of string |
| 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 contains 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 • 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 | <ul style="list-style-type: none"> • To study rate of pollution in various samples |
| Feb./March | Revision / Final Exam | |

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-6 Peasants & Farmers 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./Mar. | Revision / Final Exam. | | |

* Pages 49 – 51 deleted.

Weightage:

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

ARTS & CRAFT

| Month | Art | Activity |
|----------------|---|---|
| Apr. / May | <ul style="list-style-type: none"> • Introduction of colours • Textures • Colour tones | <ul style="list-style-type: none"> • Canvas painting. • Landscape with modern art. |
| July / Aug. | <ul style="list-style-type: none"> • Monochromatic compositions • Warm and cool colours • Perspective view | <ul style="list-style-type: none"> • Table cloth with stencil • T-shirt painting |
| Sept. | <ul style="list-style-type: none"> • Landscape with poster colour | <ul style="list-style-type: none"> • Diwali Hanging |
| Oct. / Nov. | <ul style="list-style-type: none"> • Still life • Nature study • Calligraphy | <ul style="list-style-type: none"> • Book Cover design. • Rangoli design with & paper • Study of Tribal Art. |
| Dec. / Jan. | <ul style="list-style-type: none"> • Awareness poster | <ul style="list-style-type: none"> • Study of wash painting. |

COMPUTER

| Month | Topic | Activity |
|------------------------|---------------------------------|---|
| Mar./ Apr | Ch. - 1 Computer System | Activity: Search an information on various components of computer |
| May | Ch. - 2 Types of Hardware | Activity: Search an information on various types of hardware |
| R E V I S I O N | | |
| July | Ch-3 Types of Software | Activity: Understanding various types of software and their installation |
| | Ch-4 Basics of Operating System | Activity: Search an information on various types of OS |
| Aug. | Ch-5: Word Processing Tool | Practical: Type a word document on any topic |
| | Ch-6: More On Ms Word | Practical: create a greeting card, poster, letter on any topic of your choice Submission of Practical File with Softcopy and Printouts |
| R E V I S I O N | | |
| Sep. | Ch-7: IT Applications | Term I Practical Exam Practical: Report writing on MS word |
| | Ch-8: Basics of IT | Activity: introduction of various networking components (LAN,WAN,MAN) |
| Oct. | Ch.– 9 A Presentation Tool | Practical: Create a Powerpoint presentation on Any topic discussed in your classroom |
| | | Practical: Create a Powerpoint presentation using animations, videos etc on Any topic discussed in your classroom |
| Nov. | Ch. – 10 A spreadsheet tool | Practical: Create a spreadsheet for calculating percentage of first 10 roll numbers of your class. |
| | | Practical: Create a spreadsheet for finding the highest scorer among first 10 roll numbers of your class |
| R E V I S I O N | | |
| Dec. | Ch. – 11 Python | Practical: Create a simple “Hello world” program in python |
| | Ch. – 12 Societal Impacts of IT | Activity: Search various types of viruses, malware etc. Submission of Final Practical file with softcopy and Printouts |
| R E V I S I O N | | |
| Jan | Practical Assessment | Submission of Final Practical file with softcopy and Printouts |