



# COLUMBIA FOUNDATION SCHOOL

*D – Block, Vikas Puri, New Delhi - 110018*

## SYLLABUS : (2019-20)

*Class – X*

### 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 – X

Month	Topic	GRAMMAR & WRITING SKILLS
April - July	<b>FIRST FLIGHT BOOK</b> A Letter to God Nelson Mandela His First Flight Black Aeroplane Dust of Snow (Poem) Fire & Ice (Poem) A Tiger in the Zoo (Poem) <b>FOOTPRINTS</b> A Triumph of Surgery The Thief's Story	Sub-verb Agreement Rearrange the Jumbled Words Editing Letter to the Editor Placing Orders Enquiry Letters Story Writing Relative Pronouns
Aug. - Sept	<b>FIRST FLIGHT BOOK</b> From the Diary of Anne Frank How to Tell Wild Animals ( Poem) The Ball Poem The Hundred Dresses-I The Hundred Dresses-II Amanda (Poem) <b>FOOTPRINTS</b> A Midnight Visitor A Question of Trust Footprints Without Feet	Article Writing Direct & Indirect Speech Short Compositions Omission Gap Filling  Unseen Passages Integrated Grammar
Oct.	<b>FIRST FLIGHT BOOK</b> Glimpses of India Mijbil the Otter Madam Rides the Bus Animals (Poem) The Trees (Poem) Fog (Poem) <b>FOOTPRINTS</b> The Making of a Scientist Letter The Necklace The Hack Driver	Integrated Grammar Active & Passive Voice Diary Entry  Article Writing  letter of Complaint Making an Inquiry and Reply
Nov.	<b>FIRST FLIGHT BOOK</b> The Sermon at Benares The Proposal The Tale of Custard the Dragon (Poem) For Anne Gregory (Poem) <b>FOOTPRINTS</b> Bholi The Book that Saved the Earth	Revision of Formal Letters  Article Writing
Dec.	Pre-Board – I	Revision
Jan	Pre-Board – II	Revision
Feb.- Mar.	<b>CBSE BOARD EXAM.</b>	

## MATHEMATICS – X

Month	Topic	Exam.
April & May	Ch-01: Real Numbers Ch-02: Polynomials & Probability Ch-03: Linear Equation Ch-14: Statistics	UT - 1 (40 Marks)
July	Ch-06: Triangles Ch-08: Introduction to trigonometry Ch-07: Coordinate Geometry	UT - 2 (40 Marks)
Aug. & Sept.	Ch-04: Quadratic Equation Ch-05: Arithmetic Progressions Ch-09: Height & Distance Ch-12: Area Related of Circle  <i>Syllabus for SA1 – Entire syllabus covered till now.</i>	SA – 1 (80 Marks) Total (80 + 10+5+5) Marks
Oct. & Nov.	Ch-10: Circles Ch-11: Construction. Ch-13: Surface Area and Volume	-
Dec. & Jan.	Pre-Board – I  Pre-Board – II  <i>(Entire syllabus)</i>	Pre-Board (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

Month	Topics	Practical
Apr. & May	Topic- 2 Electricity & its effect – electric circuit electric potential different and Ohm's law, resistance, factors affecting resistance of a conductor Resistance in series and parallel Heating effect of electric current Practical application, domestic circuit	Verification of Ohm's law  Determine equirdest resistance in area and parallel.
July	2. Magnetic effect of current – magnetic field , magnetic field due to currents carrying conductor	Determination of household circuit
	Magnetic field due to circular loop sources of energy	-
Mar. & Apr.	Fossil fuels thermal power plant, Hydropower plant energy from sea, Biogas plant.	-
Aug.	Reflection of light, the law of reflection, spherical mirror, Mirror formula and magnification	Refraction of light through glass slab.
<b>Sep.</b>	<b>Revision / H.Y. Exam.</b>	
Oct.	Concave convex lens and lens formula, power & Refraction of light in details.	–
Nov.	Human eye & colorful world in details	–
Dec.	<b>Revision / Pre – Board - I</b>	
Jan.	<b>Pre – Board - II</b>	
Feb.	<b>Revision</b>	
March	<b>CBSE BOARD</b>	

## BIOLOGY

Month	Topics	Practical
April	Ch-6: Life Processes	<ul style="list-style-type: none"> <li>•Preparing temporary mount of leaf peel to show stomata.</li> </ul>
May	Ch-6: Life Processes	<ul style="list-style-type: none"> <li>•Experimentally show that CO<sub>2</sub> released during respiration.-</li> </ul>
July	Ch-7: Control & Coordination	-
Aug.	Ch-8: How do Organisms Reproduce?	<ul style="list-style-type: none"> <li>•To study binary fission in amoeba &amp; budding in yeast.</li> <li>•To study different parts of an embryo of a dicot seed (pea or kidney bean).</li> </ul>
<b>Sept.</b>	<b>Revision / H.Y. Exam.</b>	
Oct.	Ch-9: Heredity of Evolution	-
Nov.	Ch-15: Our Environment Ch-16: Management of Natural Resources	-
Dec.	<b>Revision / Pre – Board - I</b>	
Jan.	<b>Pre – Board - II</b>	
Feb.	<b>Revision</b>	
March	<b>CBSE BOARD</b>	

## CHEMISTRY

Month	Topic	Practical
Mar. & Apr.	<b>Ch-1:</b> Chemical Reaction & Equations	To study various types of reactions
May / June	<b>Ch-2:</b> Acids, Bases & Salts	To find the pH value of various Compounds
July	<b>Ch-3:</b> Metals & Non Metals Topic- Properties of Metals & Non-Metals.	To study the difference between acids & bases.
	Ionic Bonding Metallurgy & Corrosion	To check the reactivity of various metals.
Aug.	<b>Ch-4:</b> Carbon & its Compounds. Topic- Covalent bonding, allotropy, unique nature	To study the prop. of ethanoic acid.
<b>Sept.</b>	<b>Revision / H.Y. Exam.</b>	
Oct.	<b>Ch-4:</b> Cont..... Topic- Organic compounds Nomenclature & Types of Reactions	
Nov.	<b>Ch-4:</b> Cont..... Topic- Ethanol, Ethanoic Acid & Soaps - Detergent. <b>Ch-5:</b> Periodic Classification of Elements	To study the effect of soap in hard water and soft water.
Dec.	<b>Revision / Pre – Board - I</b>	
Jan.	<b>Pre – Board - II</b>	
Feb.	<b>Revision</b>	
March	<b>CBSE BOARD</b>	

## COMPUTER – X

Month	Topic	Activity
Mar./ Apr	Ch. - 1 Knowing the Internet	<b>Activity:</b> Search an information from five search engines
May	Ch. - 2 Internet Protocols	<b>Activity:</b> Create your mail id on Gmail and send one mail to your friend.
<b>R E V I S I O N</b>		
July	Ch-3 Web services	Activity: Paste the screen shots of login forms of various e-shopping website.
Aug.	Ch-4 Introduction to HTML	<b>Activity:</b> Introduction to web pages
<b>R E V I S I O N</b>		
Sep.	Ch-5 Creating HTML documents Ch-6: Text formatting in HTML	<ul style="list-style-type: none"> <li>• Introduction to web pages</li> <li>• Create a simple web page displaying your name on the web page</li> <li>• Create a web page by using list, HR tag , And format the paragraph using different styles</li> </ul>
Oct.	Ch-7: Using mages, Links Ch-8 :Tables & Frames Ch-9: HTML Forms Ch-10: CSS	<ul style="list-style-type: none"> <li>• Create a web page on My Library, having a list of books. The list should be ordered and unordered both. Make use of nested list also</li> <li>• Modify above we page by inserting image on the web page. Give alternative name to the web page. Set height, width of the web page and link that page with the web page called My school which you have designed earlier</li> <li>• Design a form in Library web page for issuing &amp; returning a book</li> <li>• Apply formatting in webpage by using CSS</li> </ul>
Nov.	Ch-11: E-commerce Ch-12: Intellectual Property rights Ch-13: Software Licensing	<ul style="list-style-type: none"> <li>• Find about licenses of various softwares</li> </ul>
<b>R E V I S I O N</b>		
Dec.	Ch.– (14-19)introduction to scratch	<b>Practical:</b> <ul style="list-style-type: none"> <li>• Create a scratch moving some steps &amp; saying “hello” for 10 sec.</li> <li>• Create a color changing scratch</li> <li>• Create a scratch for calculation of speed, distance &amp; time</li> </ul> <b>Submission of Final Practical file with softcopy and Printouts</b>
<b>R E V I S I O N</b>		

# SOCIAL SCIENCE

## Term wise Syllabus

Month	Term	Unit / Topic / Chapter (As per CBSE)
<b>April to September</b>	<b>Term - 1</b>	<b>History:</b> Chapter 1 – The Rise of Nationalism in Europe Chapter 3 – Nationalism in India (Map Work)
		<b>Geography:</b> Chapter 1 – Resources and Development Chapter 2 – Forest and wildlife Resources Chapter 3 – Water Resources Chapter 4 – Agriculture Chapter 5 – Minerals and Energy Resources (Map work from the above mentioned chapters) Note: Chapters 2 and 3 will only be assessed in the Periodic Tests and will not be evaluated in the Board Examination.
		<b>Economics:</b> Chapter 1 – Development Chapter 2 – Sectors of the Economy
		<b>Political Science:</b> Chapter 1 – Power Sharing Chapter 2 – Federalism Chapter 3 – Democracy and Diversity Chapter 4 – Gender, Caste and Religion Note: Chapter 3 will only be assessed in the Periodic Test and will not be evaluated in the Board Examination.
<b>October to December</b>	<b>Term - 2</b>	<b>History:</b> Chapter 5 – The Age of Industrialization Chapter 6 – Print Culture and the Modern World (Map Work)
		<b>Geography:</b> Chapter 6 – Manufacturing Industries
		Chapter 7 – Lifelines of the Economy
		<b>Economics:</b> Chapter 3 – Money and Credit Chapter 4 – Globalization and the Indian Economy Note: Chapter 5 to be assessed as Project Work



### INTERNAL ASSESSMENT

	Marks	Description				
Periodic Assessment	10 Marks	<table><tr><td>Pen Paper Test</td><td>5 marks</td></tr><tr><td>Assessment using multiple strategies For example, Quiz, Debate, Role Play, Viva, Group Discussion, Visual Expression, Interactive Bulletin Boards, Gallery Walks, Exit Cards, Concept Maps, Peer Assessment, Self-Assessment, etc.</td><td>5 marks</td></tr></table>	Pen Paper Test	5 marks	Assessment using multiple strategies For example, Quiz, Debate, Role Play, Viva, Group Discussion, Visual Expression, Interactive Bulletin Boards, Gallery Walks, Exit Cards, Concept Maps, Peer Assessment, Self-Assessment, etc.	5 marks
Pen Paper Test	5 marks					
Assessment using multiple strategies For example, Quiz, Debate, Role Play, Viva, Group Discussion, Visual Expression, Interactive Bulletin Boards, Gallery Walks, Exit Cards, Concept Maps, Peer Assessment, Self-Assessment, etc.	5 marks					
Portfolio	5 Marks	<ul style="list-style-type: none"><li>• Classwork</li><li>• Work done (Activities / Assignments)</li><li>• Reflections, Narrations, Journals, etc.</li><li>• Achievements of the student in the subject throughout the year</li><li>• Participation of the student in different activities like Heritage India Quiz</li></ul>				
Subject Enrichment Activity	5 Marks	<ul style="list-style-type: none"><li>• Project Work</li></ul>				

### LIST OF MAP ITEMS CLASS X (2019-20)

#### A. HISTORY (Outline Political Map of India)

**Chapter - 3 Nationalism in India** – (1918 – 1930) for locating and labelling / Identification

#### 1. Indian National Congress Sessions:

- a. Calcutta (Sep. 1920)
- b. Nagpur (Dec. 1920)
- c. Madras (1927)

#### 2. Important Centres of Indian National Movement

- a. Champaran (Bihar) - Movement of Indigo Planters
- b. Kheda (Gujrat) - Peasant Satyagrah

- c. Ahmedabad (Gujarat) - Cotton Mill Workers Satyagraha
- d. Amritsar (Punjab) - Jallianwala Bagh Incident
- e. Chauri Chaura (U.P.) - Calling off the Non-Cooperation Movement
- f. Dandi (Gujarat) - Civil Disobedience Movement

## **B. GEOGRAPHY (Outline Political Map of India)**

### **Chapter 1: Resources and Development (Identification only)**

- a. Major soil Types

### **Chapter 3: Water Resources (Locating and Labelling)**

#### **Dams:**

- |                      |                    |
|----------------------|--------------------|
| a. Salal             | e. Sardar Sarovar  |
| b. Bhakra Nangal     | f. Hirakud         |
| c. Tehri             | g. Nagarjuna Sagar |
| d. Rana Pratap Sagar | h. Tungabhadra     |

***Note: The chapter 'Water Resources' to be assessed in the Periodic Tests only and will not be evaluated in Board Examination.***

### **Chapter 4: Agriculture (Identification only)**

- a. Major areas of Rice and Wheat
- b. Largest / Major producer states of Sugarcane, Tea, Coffee, Rubber, Cotton and Jute

### **Chapter 5: Minerals and Energy Resources**

#### **Minerals (Identification only)**

##### **a. Iron Ore mines**

- |              |             |
|--------------|-------------|
| • Mayurbhanj | • Bellary   |
| • Durg       | • Kudremukh |
| • Bailadila  |             |

##### **b. Coal Mines**

- |            |           |
|------------|-----------|
| • Raniganj | • Talcher |
| • Bokaro   | • Neyveli |

##### **c. Oil Fields**

- |               |               |
|---------------|---------------|
| • Digboi      | • Bassien     |
| • Naharkatia  | • Kalol       |
| • Mumbai High | • Ankaleshwar |

#### **Power Plants**

**(Locating and Labelling only)**

**a. Thermal**

- Namrup
- Singrauli
- Ramagundam

**b. Nuclear**

- Narora
- Kakrapara
- Tarapur
- Kalpakkam

**Chapter 6: Manufacturing Industries** (Locating and Labelling Only)

**Cotton Textile Industries:**

- a. Mumbai
- b. Indore
- c. Surat
- d. Kanpur
- e. Coimbatore

**Iron and Steel Plants:**

- a. Durgapur
- b. Bokaro
- c. Jamshedpur
- d. Bhilai
- e. Vijaynagar
- f. Salem

**Software Technology Parks:**

- a. Noida
- b. Gandhinagar
- c. Mumbai
- d. Pune
- e. Hyderabad
- f. Bengaluru
- g. Chennai
- h. Thiruvananthapuram

**Chapter 7: Lifelines of National Economy**

**Major Ports:** (Locating and Labelling)

- a. Kandla
- b. Mumbai
- c. Marmagao
- d. New Mangalore
- e. Kochi
- f. Tuticorin
- g. Chennai
- h. Vishakhapatnam
- i. Paradip
- j. Haldia

**International Airports:**

- a. Amritsar (Raja Sansi)
- b. Delhi (Indira Gandhi International)
- c. Mumbai (Chhatrapati Shivaji)
- d. Chennai (Meenam Bakkam)
- e. Kolkata (Netaji Subhash Chandra Bose)
- f. Hyderabad (Rajiv Gandhi)

**Note:** Items of Locating and Labelling may also be given for Identification.

SOCIAL SCIENCE (CODE NO. 087)  
QUESTION PAPER DESIGN  
CLASS X

Time: 3 Hours

Max. Marks: 80

Sr. No.	Typology of Questions	Objective Type (1 mark)	SA (3 marks)	LA (5 marks)	Map Skill	Total Marks	Weight age %
1	<b>Remembering:</b> Exhibit memory of previously learned material by recalling facts, terms, basic concepts, and answers.	9	3	1	-	23	29%
2	<b>Understanding:</b> Demonstrate understanding of facts and ideas by organizing, comparing, translating, interpreting, giving descriptions, and stating main ideas	4	2	2	-	20	25%
3	<b>Applying:</b> Solve problems to new situations by applying acquired knowledge, facts, techniques and rules in a different way.	3	1	2	-	16	20%
4	<b>Analysing and Evaluating:</b> Examine and break information into parts by identifying motives or causes. Make inferences, and find evidence to support generalizations  Present and defend opinions by making judgments about information, validity of ideas, or quality of work based on a set of criteria.	2	1	1	-	10	12%
5	<b>Creating:</b> Compile information together in a different way by combining elements in a new pattern or proposing alternative solutions.	2	1		-	5	6.5%
6	<b>Map Skill</b>				3+3	6	7.6%
	<b>Total</b>	1x20=20	3x8 =24	5x6=30	6	80	100%

- o Internal Assessment: 20 Marks

## कक्षा-10 हिन्दी पाठ्यक्रम

माह	स्पर्ष	संचयन	व्याकरण
अप्रैल	पाठ : बड़े भाईसाहब साखी	हरिहर काका	शब्द-पद वाक्य (सरल, संयुक्त एवं मिश्र)
मई	डायरी का एक पन्ना बिहारी के दोहे	एसाइमेंट	समास
जुलाई	तताँरा-वामीरो कथा मनुष्यता	सपनों के से दिन	अशुद्धि शोधन अपठित
अगस्त	पर्वत प्रदेश में पावस कर चलें हम फिदा	एसाइमेंट	मुहावरा, पत्र लेखन
सितंबर	पतझर में टूटी पत्तियाँ	टोपी शुक्ला	संवाद लेखन, विज्ञापन
अक्टूबर	तोप, आत्मत्राण	एसाइमेंट	अनुच्छेद
नवम्बर	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति
दिसम्बर	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति
जनवरी	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति
फरवरी	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति

## FINE ARTS – X

Term	Month	Art	Craft
Term-I	Apr. May	<ul style="list-style-type: none"> <li>• Elements of art</li> <li>• Human figures</li> <li>Free hand sketching</li> </ul>	<ul style="list-style-type: none"> <li>• Canvas painting</li> <li>• Indian arts</li> </ul>
	July Aug.	<ul style="list-style-type: none"> <li>• landscape</li> <li>• Still life</li> <li>• Abstract</li> </ul>	<ul style="list-style-type: none"> <li>• Creating own comic book</li> <li>• Illustration of story on hard board</li> </ul>
	Sep.	<ul style="list-style-type: none"> <li>• Human sketches</li> <li>• Nature study</li> </ul>	<ul style="list-style-type: none"> <li>• Cross stitch design on jute cloth</li> </ul>
Term-II	Oct. - Nov.	<ul style="list-style-type: none"> <li>• Portrait</li> <li>• Awareness Poster</li> </ul>	<ul style="list-style-type: none"> <li>• Miniature art</li> </ul>
	Dec. - Jan.	<ul style="list-style-type: none"> <li>• Birds and plants</li> </ul>	<ul style="list-style-type: none"> <li>• Collage</li> </ul>
	Feb.	<ul style="list-style-type: none"> <li>• Different styles of calligraphy.</li> </ul>	