

# *Somerville School*

Vasundhara Enclave, Delhi – 110 096



## **Syllabus for Class XII**

**2023 – 2024**

**SOMERVILLE SCHOOL, VASUNDHARA ENCLAVE, DELHI – 110096**

**CLASS – XII**

**BOOK LIST : 2023 – 2024**

SL. NO.	NAME	PUBLISHER	RATE
1.	<b>ENGLISH CORE (301)</b>		
	1. FLAMINGO – TEXTBOOK FOR CLASS XII (CORE COURSE)	N.C.E.R.T.	
	2. VISTAS (SUPPLEMENTARY READER IN ENGLISH FOR CLASS XII	N.C.E.R.T.	
2.	<b>MATHEMATICS (041)</b>		
	1.MATHEMATICS - TEXTBOOK FOR CLASS XII – PART-I	N.C.E.R.T.	
	2.MATHEMATICS – TEXTBOOK FOR CLASS XII – PART-II		
	3.MATHEMATICS – EXEMPLAR PROBLEMS (CLASS XII)		
3.	<b>APP. MATH (241)</b> -TEXT BOOK FOR CLASS-XII	N.C.E.R.T.	
4.	<b>PHYSICSC (042)</b>		
	1. PHYSICS – PART I - TEXTBOOK FOR CLASS - XII	N.C.E.R.T.	
	2. PHYSICS – PART II- TEXTBOOK FOR CLASS - XII	N.C.E.R.T.	
	3. COMPREHENSIVE PRACTICAL PHYSICS - XII	LAXMI PUBLICATIONS	
5.	<b>CHEMISTRY (043)</b>		
	1. A TEXTBOOK OF CHEMISTRY FOR CLASS XII – PART I	N.C.E.R.T.	
	2. A TEXTBOOK OF CHEMISTRY FOR CLASS XII – PART II	N.C.E.R.T.	
	3. COMPREHENSIVE PRACTICAL CHEMISTRY –XII	LAXMI PUBLICATIONS	
6.	<b>BIOLOGY (044)</b>		
	1. BIOLOGY – A TEXTBOOK FOR CLASS XII	N.C.E.R.T.	
	2. COMPREHENSIVE LABORATORY MANUAL IN BIOLOGY- XII	LAXMI PUBLICATIONS (P) LTD	
7.	<b>COMPUTER SCIENCE (083)</b>		
	COMPUTER SCIENCE WITH PYTHON –XII BY PREETI ARORA	SULTAN CHAND	
8.	<b>BUSINESS STUDIES (054)</b>		
	BUSINESS STUDIES FOR XII – PART I	N.C.E.R.T.	
	BUSINESS STUDIES FOR XII – PART II		
9.	<b>ACCOUNTANCY (055)</b>		
	1. DOUBLE ENTRY BOOK KEEPING – (VOL I, II) XII BY T. S. GREWAL	SULTAN CHAND	
	2. ANALYSIS OF FINANCIAL STATEMENTS – XII BY T. S. GREWAL		
10.	<b>ECONOMICS (030)</b>		
	1. INTRODUCTORY MACROECONOMICS	N.C.E.R.T.	
	2. INDIAN ECONOMIC DEVELOPMENT	N.C.E.R.T.	
11.	<b>HISTORY (027)</b>		
	1.THEMES IN WORLD HISTORY – PART-I	N.C.E.R.T.	
	2.THEMES IN WORLD HISTORY – PART-II	N.C.E.R.T.	
	3.THEMES IN WORLD HISTORY – PART-III	N.C.E.R.T.	

12.	<b>POLITICAL SCIENCE (028)</b>		
	1. POLITICS IN INDIA SINCE INDEPENDENCE (B1)	N.C.E.R.T.	
	2. CONTEMPORARY WORLD POLITICS (B2)	N.C.E.R.T.	
13.	<b>PSYCHOLOGY (037)</b>		
	PSYCHOLOGY – TEXTBOOK FOR CLASS XII	N.C.E.R.T.	
14.	<b>PHYSICAL EDUCATION (048)</b>		
	TEXT BOOK OF PHYSICAL EDUCATION-XII	SARASWATI HOUSE (P) LTD.	
15.	<b>APPLIED ART (052)</b>		
	HISTORY OF INDIAN ART – PART-II	N.C.E.R.T.	
16.	<b>INFORMATION TECHNOLOGY (802)</b>		
	1. EMPLOYABILITY SKILLS TEXT BOOK FOR CLASS XII	N.C.E.R.T.	
	2. DATA BASE MANAGEMENT APPLICATIONS –STUDENT HAND BOOK CLASS XII	CBSE	

#### STATIONERY LIST : 2023 – 2024

SL. NO.	SUBJECT	ITEM	REQ. NO.	RATE
1.	NOTE BOOKS	100 PAGES SINGLE LINED NOTEBOOKS A-4 SIZE	5	50/-
2.	PRACTICAL NOTE BOOK FOR PHYSICS	ITC CLASSMATE – 184 PAGES	1	100/-
3.	PRACTICAL NOTE BOOK FOR CHEMISTRY	ITC CLASSMATE – 184PAGES	1	100/-
4.	BIOLOGY	FILE WITH INTERLEAVED SHEETS	1	70/-
5.	PHY. EDUCATION	PRACTICAL FILE (SARASWATI)	1	
6.	APPLIED ART	IVORY SHEETS (A-3 SIZE-25 SHEETS) CARTRIDGE SHEET (A-2 SIZE-25 SHEETS – HALF IMPERIAL) POSTER COLOUR SET (CAMLIN)	1 PACKET 1 PACKET 1 PACKET	180/- 220/-
7.	MATHS ACTIVITY FILE	FILE WITH INTERLEAVED SHEETS	1	70/-

**MONTH : APRIL**

S. NO.	SUBJECTS	TOPIC / CHAPTER
1.	ENGLISH	<b>Course Book:</b> 1. My Mother at Sixty-Six – Kamala Das ( <i>Poem</i> ) 2. Keeping Quiet – Pablo Neruda ( <i>Poem</i> ) 3. Deep Water – William Douglas 4. Aunt Jennifer's Tigers – Adrienne Rich ( <i>Poem</i> ) <b>Writing Skill:</b> 1. Report
2.	PURE MATHS	Chapter 1 : Relations and Functions Chapter 2 : Inverse Trigonometric Functions Chapter 3 : Matrices
3.	CHEMISTRY	UNIT 10 : Haloalkanes and Haloarenes UNIT 11 : Alcohols, Phenols and Ethers
4.	PHYSICS	UNIT1 : Electrostatics UNIT II : Current Electricity
5.	BIOLOGY	Ch. 1 : Reproduction in Organisms Ch. 2 : Sexual Reproduction in Flowering Plants Ch. 3 : Human Reproduction
6.	HISTORY	Theme 1 : Bricks, Beads and Bones (B1) Theme 2 : Kings, Farmers and Towns (B1) The Earliest states Early Empire Notions of Kingship Theme 3 : Kingship, caste and Class (B1) Mahabharata and social order
7.	ECONOMICS	<b>MACRO ECONOMICS</b> Unit – 1 : National income and Related Aggregates <b>INDIAN ECONOMIC DEVELOPMENT</b> Development Policies and Experience 1947 – 1990 Ch – 1 : Indian Economy on the eve of independence Ch – 2 : Indian Economy 1950 – 1990
8.	POLITICAL SCIENCE	Chapter 1 : Challenges of Nation building (B1) Chapter 2 : Era of One-Party Politics (B1) Chapter 3 : Politics of Planned Development (B1)
9.	ACCOUNTANCY	Unit 1 – Accounting for partnership firms 1. Partnership Fundamentals 2. Goodwill 3. Change in profit sharing ratio among existing Partners
10.	BUSINESS STUDIES	UNIT 1 : Nature and Significance of management. UNIT 2 : Principles of Management UNIT 3 : Business environment
11.	PSYCHOLOGY	1. Intelligence and Aptitude 2. Self and Personality
12.	PHYSICAL EDUCATION	Unit 1 : Management of supporting events
13.	COMPUTER SCIENCE	Chapter 8 : Relation Data Bases and SQL
14.	APPLIED ART	L – 1 : Introduction to miniature paintings, Rajasthani and Pahari schools of art(theory) L – 2 : Study of basic concept of illustration

15.	INFORMATION TECHNOLOGY	<b>SUBJECT SPECIFIC SKILLS</b> Unit – 1 : Database Concepts – RDBMS tool
16.	APPLIED MATHS	Unit 1 : Numbers, Qualifications and Numerical Applications Unit 2 : Algebra

### MONTH : MAY

S. NO.	SUBJECTS	TOPIC / CHAPTER
1.	ENGLISH	<b>Course Book:</b> 5. The Last Lesson - Alphonse Daudet (Short Story) 6. Lost Spring – Anees Jung 7. A Roadside Stand (Poem) Robert Frost <b>Supplementary Reader:</b> 1. The Third Level <b>Writing Skill:</b> 2. Invitations (Formal / Informal – Replies)
2.	PURE MATHS	Chapter – 4 : Determinants Chapter – 5 : Continuity and Differentiability
3.	CHEMISTRY	UNIT 12 : Aldehydes, Ketones and Carboxylic acids UNIT 13 : Amines
4.	PHYSICS	UNIT II : Current Electricity (ctd) Unit III : Magnetic Effects of Current & Magnetism
5.	BIOLOGY	Chapter 4 : Reproductive Health Chapter 5 : Principles of Inheritance and Variation
6.	HISTORY	Theme 4 : Thinkers, Beliefs and Buildings (B1) Beliefs of Buddhism and Jainism Theme 5 : Through the Eyes of Travellers (B2)
7.	ECONOMICS	<b>MACRO ECONOMICS</b> Unit – 2 : Money and Banking <b>INDIAN ECONOMIC DEVELOPMENT</b> Economic Reforms since 1991 Ch – 3 : Liberalization, Privatization and Globalization
8.	POLITICAL SCIENCE	Chapter 4 : India's External Relations (B1) Chapter 5 : Challenges to the Restoration of the Congress System (B1) Chapter 6 : The Crisis of Democratic Order (B1)
9.	ACCOUNTANCY	Chapter 4 : Admission of a Partner Chapter 5 : Retirement of a Partner
10.	BUSINESS STUDIES	UNIT 11 : Marketing Management UNIT 4 : Planning
11.	PSYCHOLOGY	Chapter 3 : Human Strengths and Meeting Life Challenges Practical : Introduction to Psychological Testing and Two Psychological Tests
12.	PHYSICAL EDUCATION	Unit 1 : Management of supporting events Unit 2 : Children and women in sports

13.	COMPUTER SCIENCE	Chapter 8 : Relational Data Bases and SQL (continued) Chapter 9 : Interface Python with SQL
14.	APPLIED ART	L – 3 : Mughal and Deccan school of miniature painting L – 4 : Book Illustrations
15.	INFORMATION TECHNOLOGY	<b>SUBJECT SPECIFIC SKILLS</b> Unit – 1 : Database Concepts – RDBMS tool (Continued) <b>EMPLOYABILITY SKILLS</b> Unit – 1 : Communication Skills – IV
16.	APPLIED MATHS	Unit 3 Calculus

### MONTH : JULY

S. NO.	SUBJECTS	TOPIC / CHAPTER
1.	ENGLISH	<b>Course Book:</b> 8. A Thing of Beauty – John Keats (Poem) 9. The Rat Trap – Selma Lagerlof (Short Story) <b>Supplementary Reader:</b> 2. The Enemy – Pearl S Buck 3. Memories of Childhood – Zitkala Sa, Bama <b>Writing Skills:</b> 3. Job Application (Revision) 4. Letter to the Editor (Revision)
2.	PURE MATHS	Chapter – 6 : Application of Derivatives Chapter – 7 : Integrals
3.	CHEMISTRY	UNIT 14 : Biomolecules UNIT 2 : Solutions
4.	PHYSICS	Unit IV : Electromagnetic Induction & AC Unit V : Electromagnetic Waves
5.	BIOLOGY	Chapter 6 : Molecular Basis of Inheritance Chapter 7 : Evolution Chapter 8 : Human Health and Disease
6.	HISTORY	Theme 6 : Bhakti and Sufi Traditions (B2) Theme 7 : An Imperial Capital: Vijaynagara (B2) Theme 8 : Peasants, Zamindars and The State (B2)
7.	ECONOMICS	<b>MACRO ECONOMICS</b> Unit – 3 : Determination of Income and Employment <b>INDIAN ECONOMIC DEVELOPMENT</b> Chapter 5 : Human Capital Formation
8.	POLITICAL SCIENCE	Chapter 1 : Cold War Era in World Politics (B2) Chapter 2 : End of Bipolarity (B2) Chapter 3 : US Hegemony in World Politics (B2) Chapter 4 : Alternative Centers of Power (B2) Chapter 5 : Contemporary South Asia (B2)
9.	ACCOUNTANCY	Chapter 5 : Death of a Partner Chapter 6 : Dissolution of a Partnership firm
10.	BUSINESS STUDIES	UNIT 5 : Organizing UNIT 6 : Staffing

11.	PSYCHOLOGY	Chapter 4 : Psychological Disorders Chapter 5 : Therapeutic Approaches and Counselling
12.	PHYSICAL EDUCATION	Unit 3 : Yoga as preventive measure for Lifestyle disease Unit 4 : Physical Education & Sports for CWSN (Children with special needs – Divyang)
13.	COMPUTER SCIENCE	Chapter 1 : Review of Python Basics Chapter 2 : Functions
14.	APPLIED ART	L – 5 : Bengal school of Indian Art L – 6 : Study of human figure
15.	INFORMATION TECHNOLOGY	<b>SUBJECT SPECIFIC SKILLS</b> Unit 2 : Operating Web based Applications <b>EMPLOYABILITY SKILLS</b> Unit 2 : Self-management Skills – IV Unit 3 : Information and Communication Technology Skills – IV
16.	APPLIED MATHS	Unit 4 : Probability Distribution and Unit 5 : Inferential Statistics

### **MONTH : AUGUST**

S. NO.	SUBJECTS	TOPIC / CHAPTER
1.	ENGLISH	<b>Course Book:</b> 10. Going Places - A.R. Barton (Short Story) <b>Supplementary Reader:</b> 4. Journey to the End of the Earth- Tishani Doshi 5. On the Face of it – Susan Hill 6. The Tiger King <b>Writing Skills:</b> 5. Notice Writing (Revision) 6. Article
2.	PURE MATHS	Chapter – 8 : Application of Integrals Chapter – 9 : Differential Equations Chapter – 10 : Vector Algebra
3.	CHEMISTRY	UNIT 3 : Electrochemistry UNIT 4 : Chemical Kinetics
4.	PHYSICS	Unit VI : Optics( Ray and Wave optics)
5.	BIOLOGY	Chapter 9 : Strategies for Improvement in Food Resources Chapter 10 : Microbes in Human Welfare Chapter 11 : Biotechnology: Principles and Processes Chapter 12 : Biotechnology and its Application
6.	HISTORY	Theme 9 : Kings and Chronicles (B2) Theme 10 : Colonialism and the Countryside (B3) Theme 11 : Rebels and the Raj (B3)
7.	ECONOMICS	<b>INDIAN ECONOMIC DEVELOPMENT</b> Chapter 6 : Rural Development Chapter 7 : Employment: Growth, Informalisation and other related issues Chapter 9 : Environment and Sustainable Development

8.	POLITICAL SCIENCE	Chapter 6 : International Organisations (B2) Chapter 7 : Security in Contemporary World (B2) Chapter 8 : Environment and Natural Resources (B2) Chapter 9 : Globalization (B2)
9.	ACCOUNTANCY	Unit 3 : Analysis of Financial Statements 1. Financial Statements of a Company 2. Financial Statement Analysis 3. Ratio Analysis
10.	BUSINESS STUDIES	UNIT 7 : Directing UNIT 8 : Controlling
11.	PSYCHOLOGY	Chapter 6 : Attitude and Social Cognition <b>Practical</b> – One Psychological Test Chapter 7 : Social Influence and Group Processes
12.	PHYSICAL EDUCATION	Unit 5 : Sports and nutrition Unit 6 : Test & Measurement in Sports Unit 7 : Physiology & Injuries in Sports
13.	COMPUTER SCIENCE	Chapter 3 : Using Python Libraries Chapter 4 : Data file Handling Submission of Practical File
14.	APPLIED ART	L – 7 : Influence of wash color technique in India L – 8 : Poster Making L – 9 : Contemporary art in India L – 10 : Poster making in color
15.	INFORMATION TECHNOLOGY	<b>SUBJECT SPECIFIC SKILLS</b> Unit – 3 : JAVA (Introduction) <b>EMPLOYABILITY SKILLS</b> Unit 4 : Entrepreneurial Skills – IV Unit 5 : Green Skills – IV
16.	APPLIED MATHS	Unit 6 : Index Numbers and Time Based Data Unit 7 : Financial Mathematics

### **MONTH : SEPTEMBER**

Revision and Half Yearly Examination

ALS: Assessment of Listening and Speaking Skills



**MONTH : OCTOBER**

S. NO.	SUBJECTS	TOPIC / CHAPTER
1.	ENGLISH	<b>Course Book:</b> 11. Poets and Pancakes – Asokamitran 12. Indigo – Louis Fischer 13. The Interview – Christopher Silvester & Mukul Padmanabhan
2.	PURE MATHS	Chapter – 11 : Three – Dimensional Geometry Chapter – 12 : Linear Programming Chapter – 13 : Probability
3.	CHEMISTRY	UNIT 8 : The d – And f – Block Elements UNIT 9 : Coordination Compounds
4.	PHYSICS	Unit VII : Dual Nature Of Matter And Radiation Unit VIII : Atoms And Nuclei
5.	BIOLOGY	Chapter 13 : Organisms and Population Chapter 14 : Ecosystem Chapter 15 : Biodiversity and its Conservation Chapter 16 : Environmental Issues
6.	HISTORY	Theme 12 : Colonial Cities (B3) Theme 13 : Mahatma Gandhi and the Nationalist Movement (B3) Theme 14 : Understanding Partition (B3)
7.	ECONOMICS	<b>MACRO ECONOMICS</b> Unit 4 : Government Budget and the Economy Unit 5 : Balance of Payments <b>INDIAN ECONOMIC DEVELOPMENT</b> Chapter 10 : Development Experience of India, Pakistan and China
8.	POLITICAL SCIENCE	Chapter 7: Rise of Popular Movements (B1) Chapter 8 : Regional Aspirations (B1) Chapter 9 : Recent Development in Indian Politics (B1)
9.	ACCOUNTANCY	Unit 4 : Cash Flow Statement Unit 2 : Company Accounts 1. Issue of Share Capital 2. Issue of Debentures
10.	BUSINESS STUDIES	UNIT 9 : Financial Management UNIT 10 : Financial Market UNIT 12 : Consumer Protection
11.	PSYCHOLOGY	Chapter 8 : Psychology and Life <b>Practical</b> – One Psychological Test Chapter 9 : Developing Psychological Skills <b>Practical</b> – One Psychological Test and Case Profile
12.	PHYSICAL EDUCATION	Unit 8 : Biomechanics & Sports Unit 9 : Psychology & Sports Unit 10 : Training in sports
13.	COMPUTER SCIENCE	Chapter 6 : Data Structures in Python Chapter 7 : Computer Networks

14.	APPLIED ART	L – 11 : Introduction of Canvas painting in India L – 12 : Portrait study L – 13 : Art of Amrita Shergill, Raja Ravi Verma, The Tagores. L – 14 : Animal figure study
15.	INFORMATION TECHNOLOGY	<b>SUBJECT SPECIFIC SKILLS</b> Unit 3 : JAVA (Continued) Unit 4 : Work Integrated Learning IT – DMA
16.	APPLIED MATHS	Unit 7 : Financial Mathematics (Continued) Unit 8 : Linear Programming

### **MONTH : NOVEMBER**

S. NO.	SUBJECTS	TOPIC / CHAPTER
1.	ENGLISH	<b>Revision:</b> Writing Skills & Literature <b>Preparatory Examination</b> <b>ALS: PROJECT &amp; VIVA</b>
2.	PURE MATHS	Revision for Pre Board Examinations
3.	CHEMISTRY	Revision for Pre Board Examinations
4.	PHYSICS	Unit – IX : Electronic Devices Revision for Pre Board Examinations
5.	BIOLOGY	Revision for Pre Board Examinations
6.	HISTORY	Theme 15 : Framing the Constitution(B3) Revision for Pre Board Examinations
7.	ECONOMICS	Revision for Pre Board Examinations
8.	POLITICAL SCIENCE	Revision for Pre Board Examinations
9.	ACCOUNTANCY	Revision for Pre Board Examinations
10.	BUSINESS STUDIES	Revision for Pre Board Examinations
11.	PSYCHOLOGY	Revision for Pre Board Examination
12.	PHYSICAL EDUCATION	Revision for Pre Board Examination
13.	COMPUTER SCIENCE	Revision for Pre Board Examinations
14.	APPLIED ART	Revision for Pre Board Examinations
15.	INFORMATION TECHNOLOGY	Submission of Practical File and Project with Project File Revision for Pre Board Examinations
16.	APPLIED MATHS	Revision for Pre Board Examinations

**MONTH : DECEMBER**

<b>S. NO.</b>	<b>SUBJECTS</b>	<b>TOPIC / CHAPTER</b>
1.	ENGLISH	Pre Board Examination and Revision for Board Exams
2.	PURE MATHS	Pre Board Examination and Revision for Board Exams
3.	CHEMISTRY	Pre Board Examination and Revision for Board Exams
4.	PHYSICS	Pre Board Examination and Revision for Board Exams
5.	BIOLOGY	Pre Board Examination and Revision for Board Exams
6.	HISTORY	Pre Board Examination and Revision for Board Exams
7.	ECONOMICS	Pre Board Examination and Revision for Board Exams
8.	POLITICAL SCIENCE	Pre Board Examination and Revision for Board Exams
9.	ACCOUNTANCY	Pre Board Examination and Revision for Board Exams
10.	BUSINESS STUDIES	Pre Board Examination and Revision for Board Exams
11.	PSYCHOLOGY	Pre Board Examination and Revision for Board Exams
12.	PHYSICAL EDUCATION	Pre Board Examination and Revision for Board Exams
13.	COMPUTER SCIENCE	Pre Board Examination and Revision for Board Exams
14.	APPLIED ART	Pre Board Examination and Revision for Board Exams
15.	INFORMATION TECHNOLOGY	Pre Board Examination and Revision for Board Exams
16.	APPLIED MATHS	Pre Board Examination and Revision for Board Exams

**MONTH : JANUARY**

<b>S. NO.</b>	<b>SUBJECTS</b>	<b>TOPIC / CHAPTER</b>
1.	ENGLISH	Pre Board Examination and Revision
2.	PURE MATHS	Pre Board Examination and Revision
3.	CHEMISTRY	Pre Board Examination and Revision
4.	PHYSICS	Pre Board Examination and Revision
5.	BIOLOGY	Pre Board Examination and Revision
6.	HISTORY	Pre Board Examination and Revision
7.	ECONOMICS	Pre Board Examination and Revision
8.	POLITICAL SCIENCE	Pre Board Examination and Revision
9.	ACCOUNTANCY	Pre Board Examination and Revision
10.	BUSINESS STUDIES	Pre Board Examination and Revision
11.	PSYCHOLOGY	Pre Board Examination and Revision
12.	PHYSICAL EDUCATION	Pre Board Examination and Revision
13.	COMPUTER SCIENCE	Pre Board Examination and Revision
14.	APPLIED ART	Pre Board Examination and Revision
15.	INFORMATION TECHNOLOGY	Pre Board Examination and Revision
16.	APPLIED MATHS	Pre Board Examination and Revision