### St. Paul's School Syllabus for the Academic session 2023-24 Class –XII

## **English Core**

NOTE – Class test would be conducted after every topic.

MONTH	SYLLABUS
MARCH	WRITING SKILLS: Invitations: Formal and Informal
APRIL	Replies: Formal and Informal FLAMINGO: The Last Lesson (Prose) VISTAS: The Third Level (prose) FLAMINGO: My Mother at 66 (Poetry)
Periodic Test	Unseen Passage, Invitations and Replies, The Last Lesson, The Third
Syllabus	Level, and My Mother at Sixty-six
MAY	FLAMINGO: The Lost Spring (Prose) VISTAS: The Tiger King (Prose) FLAMINGO: Keeping Quiet (Poetry)
JULY	WRITING SKILLS:
	LETTER: Job Application with a bio data or resume
	Article Writing
	FLAMINGO: <u>Deep Water (Prose)</u>
	VISTAS: Journey to the End of the Earth (Prose)
	FLAMINGO: A Thing of Beauty (Poetry)
AUGUST	FLAMINGO: The Rattrap (Prose)
	VISTAS: Enemy (Prose)
	FLAMINGO: A Roadside Stand (Poetry)
	FLAMINGO: Indigo (Prose)
SEPTEMBER	Revision of the syllabus covered.
	WRITING SKILLS:
	<u>LETTER:</u> Letter to the Editor
	Notice
	Report Writing
	FLAMINGO: Poets and Pancakes (Prose)
Term 1	Syllabus: All the topics covered till the month of September. (80 marks) ASL: 20 Marks
OCTOBER	FLAMINGO: The Interview (Prose)
OCTOBER	VISTAS: On the Face of It (Prose)
	FLAMINGO: Aunt Jennifer's Tigers (Poetry)
NOVEMBER	FLAMINGO: Going Places (Prose)
	VISTAS: Memories of Childhood (Prose)
	The Cutting of My Long Hair
	We Too are Human Beings
DECEMBER	Entire syllabus.
TERM II	Project: 20 Marks

## **Political Science**

Months	Chapters	Activity/Project/Grammar
March-April	Ch1 The End of Bipoarity Ch2 Contemporary centres of power	Topics will be discussed for Practical project. Students will be asked to collect information relevant to their topic
May	Ch3 Contemporary South Asia Ch-4 International Organisations.	Format of the Project file will be discussed.
July	Ch5 Security in Contemporary World Ch6 Environment and Natural Resources Ch-7 Globalisation	Students will be asked to find out application based questions
August	Ch1 Challenges of Nation Building Ch-2 Era of one party dominance Ch 3 Politics of planned development	Review – Project File Students will work on presentation part.
September	Revision – Term 1 syllabus	
-	ok 1 Chapter- 1,2,3,4,5,6,7,and 8	
October	Ch-4 India's External Relations Ch-5 Challenges to and restoration of the congress system	Viva Questions from the project file
November	Ch-6 Crisis of democratic order Ch-7 Regional Aspirations Ch-8 Recent Developments	Practice for- Practical exam
December	Revision	
Term 2 Syllabus	10	
Chapter-1,2,3,4,5,6,7,	ana 8	

# **Sociology**

## **Books: Indian Society .11**

## Social change and development in India

Months	Chapters	Project/ Activity
March- April BOOK I Indian Society	Chapter 2 The demographic Structure of Indian Society. Chapter 3 Social Institutions: Continuity and Change. [To be Continued]	The basic parameters of the project given to the students.
May	Chapter 3:.Social Institutions: Continuity and Change.[ To be completed]	1 Allocation of Project topics Writing of the Rationale for the project 2 Preparing the Questionnaire for the project.
May ; Cycle Test	Chapter 2	
July:	Chapter 5: Patterns of Social inequality and Exclusion. Chapter 6: the Challenges of cultural Diversity	Writing of the content for the sub-topics of the project.
August BOOK II: Social Change and Development in India	Chapter 1 ;Structural Change Chapter 2 : Cultural Change	Data analysis for the project to be completed.  First Terminal Project viva
September:	First Terminal examination Syllabus : Chapters taught covered from March to August	
October:	Chapter 4: The Change and Development in the rural Society. Chapter 5: The change and development in industrial society.	Final Project Completion Data interpretation and conclusion.
November:	Chapter 8. Social Movements	Pre Board Project Viva
December:	Second terminals; Selected chapters	

# **History**

NCERT Books- Theme in Indian History (Part I, II, III)

Months	Test/Exam	Chapters	Activity/Project
March,		Theme 1-Bricks, Beads and	Project work for the practical's
April, May		Bones	will be initiated. Students will
		Theme 2- Kings, Farmers and	collect information relevant to
		Towns	their topic.
		Theme 3- Kinship, Caste and	_
		Class	
		Theme 4- Thinkers, Beliefs	
		and Buildings	
May	Cycle	Theme 1 & 2	
	Test/Periodic		
	Test - I		
July		Theme 5 - Through the Eyes of	
-		Travellers	
		Theme 6- Bhakti-Sufi	
		Traditions	
July	Cycle	Theme 3 & 4	
	Test/Periodic		
	Test - II		
August			
		Theme 7- An Imperial Capital:	
		Vijayanagara	
Cantanalaan		Thomas 9 December	Due is at yearly to be callegted
September		Theme 8 – Peasants, Zamindars and the State	Project work to be collected.
		Zammdars and the State	Students will be given
			guidelines about the CBSE
			Project and the students will submit first draft of their
			projects. Midterm Assessment by internal
			examiner.
September	Term I / Half	Theme 1 to 6	exammer.
September	Yearly Exam	Theme I to 0	
October	Tearry Exam	Theme 10- Colonialism and	
October		Countryside	
		Theme 11- Rebels and the Raj	
October	Cycle	Theme 7 & 8	
	Test/Periodic test	Theme / & 0	
	- III		
November	111		CBSE Art Integrated Learning
		Theme 13- Mahatma Gandhi	(AIL) activity
		and the National Movement	On an A3 /A4 size coloured
			/plain sheet draw, sketch or paint
		Theme 15- Framing the	with brief description: The
		Constitution	Revolt of 1857; Themes in
			Indian History Part-III / Rebels
			and Raj.
December	Term II/Final	Theme	Final Assessment and VIVA of
January	Exam/PreBoard	1,2,3,4,5,6,7,8,10,11,13,15	Practical Project by external
February			examiner.
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# **Chemistry**

Months	Books: NCERT Chapters	Activity/ Projects/Grammar
March	Ch6 Haloalkanes and Haloarenes	Volumetric analysis 1) Oxalic acid Vs. KMnO <sub>4</sub> 2) Mohr's salt Vs. KMnO <sub>4</sub>
April	Ch7 Alcohols, Phenols and Ethers Ch1 Solutions	3) Chromatography
May	Ch1 Solutions (cont) Ch2 Electrochemistry	Electrochemical cell     Neutralization reaction
July	Ch2 Electrochemistry (cont) Ch3 Chemical kinetics	<ul><li>6) Rate of reaction with change in concentration and temperature.</li><li>7) Preparation of lyophilic and lyophobic sols.</li></ul>
August	Ch 5 Coordination compounds Ch 4 d- and f- Block elements	<ul><li>8) Salt analysis</li><li>9) Dialysis</li><li>10) Functional group test</li></ul>
September	Revision	,
October	Ch8 Aldehydes, ketones and carboxylic acids	11) Food stuff test 8) Salt analysis cont
November	Ch9Amines Ch 10 Biomolecules	8) Salt analysis cont 12) Crystal preparation of potash alum 13) Preparation of azo dye.
December	Revision (Term 2)	
January	Revision (Pre-Board)	

## **Physics**

**Book: NCERT** 

Months	Chapters	Practical/Activity/Project
March	Ch:1 Electric charges and Fields	
April	Ch:2 Electrostatic Potential and	E1) To determine the resistivity of two wires
	Capacitance	E2) To find the resistance of a given wire using a meter bridge
May	Ch:3 Current Electricity	E3) To verify the laws of combination (series) of resistances using a metre bridge
	Periodic Test 1 -	-Syllabus: Chapters 1 & 2
July	Ch:4 Magnetic effect of electricity	E4)To determine a galvanometer's resistance and find its figure of merit.
	Ch:5 Magnetism and matter	E5) To find, the focal length of a convex lens
	Ch:6 Electromagnetic induction	E6) To find the focal length of a convex mirror, using a convex lens
	Periodic Test 2 -	- Syllabus: Chapters 2 & 3
August	Ch:7 Alternating Current	E7) To determine the angle of minimum deviation for a
	Ch:8 Electromagnetic waves	given prism
		E8) To draw the I-V characteristic curve of a p-n junction in forward bias
September	Revision	
	Term 1 Examinat	ion Syllabus: Chapters 1 - 8
October	Ch:9 Ray Optics and Optical	A1) To assemble a household circuit
	Instruments	A2) To assemble the components of a given electrical
	Ch:10 Wave Optics	circuit
	Ch:11 Dual nature of radiation and Matter	A3) To draw the diagram of a given open circuit. Mark the components that are not connected in proper order and correct the circuit and also the circuit diagram
		A4) To identify a diode, an LED, etc. from a mixed collection of such items.

	Periodic Test 3 –	<ul><li>A5) To observe refraction and lateral deviation on a glass slab.</li><li>A6) To observe the diffraction of light due to a thin slit</li><li>Syllabus: Chapters 9 &amp; 10</li></ul>	
November	Ch:12 Atoms Ch:13 Nuclei Ch:14 Semiconductor Electronics	Investigatory Project	
December	Revision		
Term 2 Examination Syllabus: Chapters 9 - 14			
January	Revision		
Pre-Board Examination Syllabus: Chapters 1 - 14			

# **Mathematics**

Months	Chapters	Activity/ Projects/Grammar
March	Relations and functions     Inverse trigonometric functions	Assignment on Relations and Functions and Inverse Trigonometric functions
April	<ul><li>5. Continuity and Differentiability</li><li>6. Application of Derivatives</li></ul>	Assignment on Continuity
Periodic Test I - Syllabus: cha	apters 1, 2	
May	Application of Derivatives (continued)	Mathematical Lab Activities  Class test on Application of Derivatives
Periodic Test 2 - Syllabus: ch	apters 5, 6	
July	7. Integration 8. Application of Integration	Assignment on Integration.  Class test on Integration
August	9. Differential Equation 10. Vectors 11. Three Dimensional Geometry	Assignment on Vectors and Three Dimensional Geometry
September	11. Three Dimensional Geometry (continued)	

October	12. Linear programming	
	13. Probability	
Periodic Test 3 - Syllabus	: chapters 10, 11	
		T
November	3. Matrices	Class test on Matrices
	4. Determinants	
December		
Town 2 Syllohya Chanta		
Term 2 - Synabus, Chapte	ers 1,2,3,5,6,7,8,9,10,11,12,13	
Pre board - syllabus:		
complete syllabus		

# **Biology**

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Month	Theory	Term 1 Practical
March - May	Unit VI	A. List of Experiments
	Reproduction  Chapter-1: Sexual Reproduction in Flowering Plants  Chapter-2: Human Reproduction  Chapter-3: Reproductive Health	A1. Study pollen germination on a slide.  A2. Collect and study soil from at least two different sites and study them for texture, moisture content, pH and water holding capacity. Correlate with the kinds of plants found in them.  A3. Collect water from two different water bodies around you and study them for pH, clarity and presence of any living organism  A4. Study the effect of different temperatures and three
July - August	Unit-VII Genetics and Evolution  Chapter-4: Principles of Inheritance and Variation  Chapter-5: Molecular Basis of Inheritance  Chapter-6: Evolution	different pH on the activity of salivary amylase on starch.  A5. Isolate DNA from available plant material such as spinach, green pea seeds, papaya, etc.  B. Study/observation of the following (Spotting)  B1. Flowers adapted to pollination by different agencies (wind, insects, birds).  B2. Pollen germination on stigma through a permanent slide.

	Unit-VIII Biology and Human Welfare Chapter-7: Human Health and Diseases	B3. Identification of stages of gamete development, i.e., T.S. of testis and T.S. of ovary through permanent slides (from grasshopper/mice).  B4. Meiosis in onion bud cell or grasshopper testis through permanent slides.  B5. T.S. of blastula through permanent slides (Mammalian)  B6. Mendelian inheritance using seeds of different colour/sizes of any plant.
TERM – II		
September	Chapter-8: Microbes in Human Welfare	A. List of Experiments  A6. Study the presence of suspended particulate matter in air at two widely different sites.
October (first three weeks)	Unit-IX Biotechnology and Its Applications Chapter-9: Biotechnology - Principles and processes	<ul><li>A7. Study the plant population density by quadrat method.</li><li>A8. Study the plant population frequency by quadrat method.</li><li>A9. Prepare a temporary mount of onion root tip to study mitosis.</li></ul>
	Chapter-10: Biotechnology and its Application	<ul><li>B. Study/observation of the following (Spotting)</li><li>B7. Prepared pedigree charts of any one of the genetic</li></ul>
October (last week) November	Unit-X Ecology and Environment  Chapter-11: Organisms and Populations  Chapter-12: Ecosystem  Chapter-13: Biodiversity and its Conservation	traits such as rolling of tongue, blood groups, ear lobes, widow's peak and colour blindness.  B8. Controlled pollination - emasculation, tagging and bagging.  B9. Common disease-causing organisms like Ascaris, Entamoeba, Plasmodium, any fungus causing ringworm through permanent slides or specimens. Comment on symptoms of diseases that they cause.  B10.Two plants and two animals (models/virtual images) found in xeric conditions. Comment upon their morphological adaptations. B11.Two plants and two animals (models/virtual images) found in aquatic conditions. Comment upon their morphological adaptations.

### **Computer Science**

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April, May:
Lesson - Databases and SQL, Grouping Records and Joins in SQL
Lesson – Table creation and Data Manipulation using MySql
Lesson – Working with Functions, File Handling (Text files)
July:
Lesson – Using Python Libraries, File Handling (Binary and CSV files)
August:
Lesson – Interface Python with MySQL
          Relational Databases
September:
Lesson – Recursion
October:
Lesson – Data Structures I (Linear Lists)
         Data Structures 2 (Stacks and Queues using Lists)
November:
Lesson – Communication and Computer Network Concepts
December: Revision
Informatics Practices
April, May:
Lesson – MySQL Revision tour
          SQL functions, Queries, Sql Joins
         Plotting with PyPlot
July:
Lesson – Python Pandas- I
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Python Pandas- II

**August:** 

Lesson – Python Pandas- II (cont...)

#### **September:**

Lesson – Importing/Exporting Data between CSV files/MySQL and

Pandas

#### October:

Lesson – Introduction to Computer Networks

#### **November:**

Lesson – Introduction to Internet and Web

Societal Impacts

**Data Protection** 

**December:** Revision

## **Accountancy**

### BOOKS: Accounting for Partnership Firms, Accounting for Companies, Analysis of Financial Statement

Months	Chapters
March-April	Chapter-1 Financial Statement of a Company
_	Chapter-2 Financial Statement Analysis
	Chapter -3 Accounting Ratios
	Chapter-4 Cash Flow
	Chapter -3 Nature and Valuation of Goodwill
	Chapter-2 Fundamentals of Partnership (Accounting for Partnership)
May	Accounting for Partnership Firms
	Chapter-1 Fundamentals of Partnership
	Chapter-2 Nature and Valuation of Goodwill
CYCLE	Chapter-1 Financial Statement of a Company
TEST	Chapter-3 Nature and Valuation of Goodwill
	Chapter -4 Accounting Ratios
July-August	BOOK –Accounting for Partnership
	Chapter-3 Change in Profit Sharing Ratio
	Chapter-4 Admission of a Partner
	Chapter -5 Retirement of a Partner
	Chapter-6 Death of a Partner
	Chapter-7 Dissolution of Partnership
Cycle Test	Volume (III) Analysis of Financial Statement
	Chapter-1 Financial Statement of a Company
	Chapter -3 Accounting Ratios
	Volume (I) Partnership Accounts
	Chapter -1 Accounting for Partnership Firms Fundamentals
	Chapter -4 Admission of Partner
September	Chapter -7 Dissolution of Partner
Term 1	Full Book- Analysis of Financial Statement
EXAM	Full Book –Accounting for Partnership

Oct-Nov	Volume (II)
	Chapter -1 Issue of shares
	Chapter -2 Issue of Debentures
Periodic	Chapter -1 Issue of Shares
Test/Term -2	Chapter-2 Issue of Debentures
	Chapter-4 Cash Flow
	Chapter-5 Retirement of a Partner
	Chapter-6 Death of a Partner
	Chapter-7 Dissolution of Partner

## **Business Studies**

### **BOOKS: 1. Business Studies (NCERT) (I) 2. Business Studies (NCERT) (II)**

Months	Chapters
March	BOOK-Business Studies (NCERT) (II) CH-11 Marketing (NCERT BOOK II)
April- May	BOOK-Business Studies (NCERT) (I) Ch1- Nature and Significance of Management Ch2- Principles of Management (Taylor Principles)BOOK-Business Studies (NCERT) (II) CH-11 Marketing (NCERT BOOK II)
CYCLETEST	BOOK-Business Studies (NCERT) (I) Ch2- Principles of Management (Henry Fayol and Taylor Principles)CH-11 Marketing (NCERT BOOK II)
July-August	BOOK-Business Studies (NCERT) (I)Ch-3-Business Environment Ch4-Planning Ch-5 Organising
Cycle Test	BOOK-Business Studies (NCERT) (I)Ch2-Principles of Management Ch-3-Business EnvironmentCh4-Planning Ch-5 Organising
September	Chapter 6-Staffing Chapter 7-Directing
Term 1EXAM (Half Yearly exam)	BOOK-Business Studies (NCERT) (I) Ch1- Nature and Significance of ManagementCh2- Principles of Management Ch-3-Business EnvironmentCh4-Planning Ch-5OrganisingCh-6 Staffing Ch-7 Directing BOOK-Business Studies (NCERT) (II)Ch-11 Marketing
Oct-Nov	Ch8-Controlling BOOK-Business Studies (NCERT) (II) Ch9-Financial Management Ch10-Financial Markets Ch12-Consumer Protection
Periodic Test/Term-2	Ch8-Controlling  BOOK-Business Studies (NCERT) (II)Ch9-Financial Management Ch10-Financial Markets Ch12-Consumer Protection
December	Revision Processing Traceton

January	Sample Paper Practice
Note:	Changes can be made as per the Calendar (Diary) or the number of working
	days.

## **Economics**

	Chapters	Activity/Project
March-April	IED: Ch1: Indian Economy on the Eve of Independence Ch2: Five Year Plans in India Ch3: Agriculture, Industry and Trade (1950-1990) Ch4: LPG Macro Ch1 and Ch2 of National Income and related Aggregates	NCERT Questions  Topics will be discussed for Practical Project  Students will be asked to collect information according to the topics assigned
PT 1 (May)	IED: Ch1: Indian Economy on the Eve of Independence Ch2: Five Year Plans in India Ch3: Agriculture, Industry and Trade (1950-1990) Macro Ch1 and Ch2 of National Income and related Aggregates	
May	Macro Ch4:Methods of Calculating National Income	
June	Summer vacation	Project to be completed
July	IED Ch: Human Capital Formation Macro: Money and Baking	
PT2	IED: Ch: LPG - An Appraisal Ch: HCF Macro: Ch3 National Income and Related Aggregates Ch4 Methods of calculating National Income:	
August	Macro: Ch: Determination of Income and Employment	Review: Students will work on presentation part and make the file
TERM 1	Syllabus of PT1 + PT2	Viva Based on Project
September	IED: Rural Development Ch: Current Challenges Facing Indian Economy Employment Environment and Sustainable Development Macro: Government Budget and Economy	

October	Macro:	Files to be submitted for
	Government Budget and Economy continued	correction
	Foreign Exchange Rate	AIL- PPT to be made
		based on the topic of the
		Project
PT3	Macro:	
	Ch: Determination of Income and Employment	
	IED:	
	Rural Development	
	Ch: Current Challenges Facing Indian Economy	
	Employment	
November	Macro	
	Ch: Balance of Payment	
	Ch: Development Experience Of India- A comparison	
	with Neighbours	
	Revision and class tests	
December	Pre-Board I	
January	Pre-Board II	
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# **Psychology**

Month	Chapters	Activity/Project
March	Ch- 1 Variations in Psychological Attributes	Introduction to intelligence test.
		Introduction to case profile.
April	Ch-2 Self and Personality	Introduction to personality inventory. Introduction to self-concept questionnaire.
Periodic Test I Syllab Chapter 1 Variations in	o <b>us</b> n Psychological Attributes	
May	Ch-3 Meeting Life Challenges	Classroom activity related to identifying stressors and coping strategies to deal with them.
Summer Break		
Periodic Test 2 Syllab	ous	
Chapter – 2 Self and Po	ersonality	
July	Ch-4 Psychological Disorders	Discussion on case studies related to psychological disorders.
August	Ch-5 Therapeutic Approaches	Introduction to attitude scale.

		Introduction to adjustment inventory.
September	Revision	
Term 1 Syllabus		
Chapter 1 Variation	ons in Psychological Attributes	
Chapter 2 Self and	•	
Chapter 3 Meeting	-	
Chapter 4 Psychol	logical Disorders	
October	Ch-6 Attitude and Social Cognition	Classroom activity on attitude formation
November S-Therap	Ch-7 Social Influence and Group	
	Processes	
Term-2 Syllabus-	- I	
Chapter-1 Variation	ons in Psychological Attributes	
Chapter-2 Self and	d Personality	
Chapter-3 Meeting		
Chapter-4 Psychol	<del>-</del>	
Chapter-5 Therape		
Chapter-6 Attitude	eutic Approaches e and Social Cognition Influence and Group Processes	

## **Physical Education**

Books: Health and Physical Education (By: Dr . V. K. Sharma)

Months	Chapters	Activity/ Project/
April	Unit 1 - Management of Sporting Events	File work
May	Unit 2 - Children & Women in Sports	File work
July	Unit 3 - Yoga as Preventive Measure for Lifestyle Disease	Assignment on Yoga
August	Unit 4- Physical education and sports for CWSN	Assignment on Special Olympics

September	Unit 5- Sports and Nutrition	Assignment on
	Unit 6 – Test and Measurement in Sports.	Balance Diet
Term 1: Syllabus	All units covered from April to September.	
October	Unit 7- Physiology and Injuries in Sports	Assignment on
	Unit 8 – Biomechanics and Sports	Sports Injury
Periodic Test 3: Syllabus	Unit 7 and Unit 8	
November	Unit 9 – Psychology and Sports	Assignment on
	Unit 10- Training in Sports	Training Methods
Term 2 Syllabus	All chapter covered in October and November	
January	Pre- Boards: Full Syllabus (all chapter covered	
	from April to November.	

### **Sculpture**

### Book - An introduction to India art - Part 2 by NCERT

#### <u>April</u>

Theory- Chapter- 1. Element and Principle of Art

Practical- Class work- #3D clay modeling compositions

# Practice Sketches

# Composition (20 drawings based on round sculpture)

May

Theory- Chapter- 2. Mughal miniature painting

Practical- Class work- #3D clay modeling compositions

# Practice Sketches

# Composition (20 drawings based on round sculpture)

July

Theory- chapter- 3. Deccan miniature painting

4. Rajasthani miniature painting

Practical- class work- #3D clay modeling compositions

# practice sketches

# Composition (20 drawings based relief sculpture)

Theory- chapter- 5. Pahari miniature painting

6. Bengal school of Art

Practical- class work- # Relief clay modeling compositions

# practice sketches

# Composition (20 drawings based on Relief compositions)

### September

Theory- chapter- 6. Bengal school of Art

7. Modern Art trend in India

Practical- class work- # Relief clay modeling

# practice sketches

# Composition (20 drawings based on relief sculpture)

#### October

Theory- chapter- 7. Modern Art trend in India

Practical- class work- # Relief clay modeling

# practice sketches

# Composition (20 drawings based on relief sculpture)

#### November

Theory- chapter- Revision

Practical- class work- Revision