ST. THOMAS SCHOOL, LONI
SESSION – 2026-27
PRE-BOARD EXAMINATION SYLLABUS
CLASS- XII (SCIENCE)

ENGLISH

Textbooks- FLAMINGO
VISTAS
Publisher- NCERT

✓ **Reading Comprehension Passage with variety of competency-based questions as per the Board exams will be included.**

✓ **Theme inference, value based and extrapolation will be a part of literature section.**

BOOK	**CHAPTER**
Reading	Comprehension Passages
Flamingo	Lost Spring
	Deep Water
	The Rattrap
	Interview
	Indigo
	Going Places
Poems	My Mother at Sixty-Six
	Keeping Quiet
	A Roadside Stand
	Aunt Jennifer's Tigers
Vistas	Third Level
	On the Face of It
	The Tiger King
	The Enemy
	Memories of Childhood
Writing	Notice, Invitations & Replies, Letter To The Editor, Job Application, Article, Report

PHYSICS

Textbook- NCERT
Publisher- NCERT

S.NO.	CHAPTER NUMBER	CHAPTER NAME
1.	Chapter - 1	Electric Charges and Fields
2.	Chapter - 2	Electric Potential and Capacitance
3.	Chapter -3	Current Electricity
4.	Chapter - 4	Moving Charges and Magnetism
5.	Chapter - 5	Magnetism and Matter
6.	Chapter - 6	Electromagnetic Induction
7.	Chapter -7	Alternating Current
8.	Chapter -8	Electromagnetic waves
9.	Chapter- 9	Ray Optics and Optical Instruments
10.	Chapter- 10	Wave optics
11.	Chapter -12	Atoms
12.	Chapter - 13	Nuclei

CHEMISTRY

Textbook- NCERT
Publisher- NCERT

Chapter-1	Solutions
Chapter-2	Electrochemistry
Chapter-3	Chemical Kinetics
Chapter-4	d and f Block elements
Chapter-5	Coordination Compounds
Chapter-6	Haloalkanes and Haloarenes
Chapter-7	Alcohols Phenols and Ethers
Chapter -8	Aldehyde Ketones and Carboxylic Acids
Chapter-9	Amines
Chapter-10	Biomolecules

BIOLOGY

TEXT BOOK-BIOLOGY

PUBLISHER-NCERT

Chapter-1	Sexual Reproduction in Flowering Plants
Chapter-2	Human Reproduction
Chapter-3	Reproductive Health
Chapter-4	Principles of Inheritance and Variation
Chapter-5	Molecular Basis of Inheritance
Chapter-6	Evolution
Chapter-7	Human Health and Diseases
Chapter-8	Microbes in Human Welfare
Chapter-9	Biotechnology: Principles And Processes
Chapter-10	Biotechnology and Its Applications
Chapter-11	Organisms and Populations

MATHS

TEXT BOOK-MATHS
PUBLISHER-NCERT

S.NO	CHAPTER NUMBER	CHAPTER NAME
1.	Chapter - 1	Relations and Functions
2.	Chapter -2	Inverse Trigonometric Functions
3.	Chapter -3	Matrices
4.	Chapter - 4	Determinants
5.	Chapter - 5	Continuity and Differentiability
6.	Chapter - 6	Application of Derivatives
7.	Chapter - 7	Integrals
8.	Chapter -8	Application of Integrals
9.	Chapter-9	Differential Equations
10.	Chapter –10	Vector Algebra
11.	Chapter -11	Three-Dimensional Geometry
12.	Chapter -12	Linear Programming
13.	Chapter - 13	Probability

APPLIED MATHS

TEXT BOOK-APPLIED MATH

PUBLISHER-M.L. AGGARWAL

Chapter Number	Chapter Name
Chapter 1	Number, Quantifications and Numerical Applications
Chapter 2	Numerical Inequalities
Chapter 3	Matrices
Chapter 4	Determinants
Chapter 5	Differentiation
Chapter 6	Applications of Derivatives
Chapter 7	Integrals
Chapter 8	Differential Equations
Chapter 9	Probability
Chapter 10	Inferential Statistics
Chapter 11	Time Based Data
Chapter 12	Perpetuity, Sinking Funds, Bonds and EMI
Chapter 13	Returns, Growth and Depreciation
Chapter 14	Linear Programming

WEB APPLICATION

CHAPTER NUMBER	CHAPTER NAME
Part A:	
Unit 1	Communication Skills-III
Unit 2	Self-Management Skills-III
Unit 3	ICT Skills-III
Unit 4	Entrepreneurial Skills-III
Unit 5	Green Skills-III
Part B:	
Unit 1	Emerging Trends
Unit 2	JavaScript Part 2
Unit 3	Graphic Designing using Canva and Adobe Express
Unit 4	Cyber Safety and Security

PAINTING

Book- Panoramic Indian Painting

Publisher – Vishal Publication

S.NO	CHAPTER NUMBER	CHAPTER NAME
1	Chapter – 1	The Rajasthani Schools of Miniature Painting
2	Chapter -2	The Pahari Schools of Miniature Painting
3	Chapter -3	The Mughal Schools of Miniature Painting
4	Chapter- 4	The Deccan Schools of Miniature Painting
5	Chapter -5	The Bengal School of Paintings

PHYSICAL EDUCATION

Chapter-1	Management Of Sporting Events
Chapter -2	Children And Women in Sports
Chapter -3	Yoga As Preventive Measure for Lifestyle Disease
Chapter -4	Physical Education & Sports for CWSN
Chapter -5	Sports & Nutrition
Chapter -6	Test & Measurement in Sports
Chapter -7	Physiology & Injuries in Sports
Chapter -8	Biomechanics And Sports
Chapter -9	Psychology And Sports
Chapter -10	Training In Sports

PSYCHOLOGY

CHAPTER NO.	CHAPTER NAME
CHAPTER: 2	Self and Personality
CHAPTER: 3	Meeting Life Challenges
CHAPTER: 4	Psychological Disorders

CHAPTER: 5	Therapeutic Approaches
CHAPTER: 6	Attitude and Social Cognition
CHAPTER: 7	Social Influence and Group Process

CARNATIC MUSIC

TEXT BOOK- SOUTH INDIAN MUSIC BOOK BY SAMBAMOORTHY

PUBLISHER- INDIAN MUSIC PUBLISHING HOUSE, MADRA

S.NO	TOPICS
1.	**BIOGRAPHIES –** ANNAMACHARYA, KSHETRAJNA, SWATI TIRUNAL, GOPAL KRISHNA BHARATI, PATNAM SUBHRAMANYA IYER, MYSORE VASUDEVACHAR, RAMNAD SRINIVASA IYENGAR, MAHA VAIDYANATH IYER
2.	**LAKSHANA GRANDHAS –** SANGITA SARAMRITA, SANGITA SAMPRADAYA PRADARSHINI, SVARAMELAKALANIDHI, RAGA VIBODHA, BRIHADSESI
3.	**MUSICAL FORMS –** KRITI, PADAM, JAVALI, TIRUPPUGAZH, RAGAMALIKA
4.	**RAGA CLASSIFICATION**
5.	**CLASSIFICATION OF MUSICAL INSTRUMENTS**
6.	**RAGA LAKSHANAS –** MOHANAM, PANTUVARALI, KEERAVANI, KEDARAGOULA, TODI, NATA, GOULA, SRI, SAVERI, RITIGOULA
7.	**DEFINITION -** JANAKA RAGA, JANYA RAGA, UPANGA, VARJA, VAKRA RAGAS, ARUDI, EDUPPU, PRABHANDHAM, GRAMA, MURCHANA, JAATI
8.	**MANODHARMA SANGITAM**
9.	**DRAW TANPURA AND EXPLAIN IT'S PARTS**
10.	**RAGA LAKSHANAS –** MOHANAM, PANTUVARALI, KEERAVANI, KEDARAGOULA, TODI, NATA, GOULA, SRI, SAVERI, RITIGOULA
11.	**BRIEF DESCRIPTION OF CONCERT INSTRUMENTS, THEIR CONSTRUCTION AND TECHNIQUES OF PLAYING**

HINDI

पाठ्यपुस्तक – 1. अंतरा भाग-2 (NCERT)

2. अंतराल भाग-2 (NCERT)

3. अभिव्यक्ति और माध्यम (NCERT

पूर्ववार्षिक परीक्षा

अंतरा भाग -2	
काव्य खंड	
1.	जयशंकर प्रसाद - (ख) कार्नेलिया का गीत
2.	सूर्यकांत त्रिपाठी 'निराला' (ख) सरोज स्मृति

3.	सच्चिदानंद हीरानंद वात्स्यायन 'अज्ञेय' (क) यह दीप अकेला (ख) मैंने देखा , एक बूँद
4.	केदारनाथ सिंह - (क) बनारस (ख) दिशा
6.	रघुवीर सहाय - (क) वसंत आया (ख) तोड़ो
7.	मलिक मुहम्मद जायसी - बारहमासा
8.	विद्यापति - पद
9.	घनानंद - कवित्त / सवैया
गद्य खंड	
1.	पंडित चंद्रधर शर्मा गुलेरी - सुमिरिनी के मनके
2.	फणीश्वरनाथ 'रेणु'- संवदिया
4.	असगर वजाहत - शेर , पहचान , चार हाथ , साझा
5.	निर्मल वर्मा - जहाँ कोई वापसी नहीं
6.	ममता कालिया - दूसरा देवदास
7.	हज़ारी प्रसाद द्विवेदी - कुटज
अंतराल भाग-2	
1.	सूरदास की झोंपड़ी (प्रेमचंद)
3.	बिस्कोहर की माटी (विश्वनाथ त्रिपाठी)
4.	अपना मालवा - खाऊ -उजाड़ू सभ्यता में (प्रभाष जोशी)
अभिव्यक्ति और माध्यम	
1.	विभिन्न माध्यमों के लिए लेखन
2.	पत्रकारीय लेखन के विभिन्न रूप और लेखन प्रक्रिया
5.	विशेष लेखन स्वरूप और प्रकार
6.	कैसे बनती है कविता
7.	नाटक लिखने के व्याकरण
8.	कैसे लिखें कहानी
9.	नए और अप्रत्याशित विषयों पर लेखन
लेखन कौशल	अपठित गद्यांश -पद्यांश , नए और अप्रत्याशित विषयों पर लेखन

PHYSICAL ACTIVITY TRAINER

PART A: EMPLOYABILITY SKILLS

UNIT 1	Communication Skills – IV
UNIT 2	Self-management Skills – IV
UNIT 3	Information and Communication Technology (ICT) Skills – IV
UNIT 4	Entrepreneurial Skills – IV
UNIT 5	Green Skills – IV

PART B: SUBJECT-SPECIFIC SKILLS

CH-1	Overview of Physical Education and Sports Sector
CH-2	Assessment of Students
CH-3	Emergency Management
CH-4	Health and Hygiene in Play Area

PART C: PRACTICAL / INTERNAL ASSESSMENT

1	Practical Examination
2	Written Test

3	Viva Voce
4	Practical File / Student Portfolio
5	Project Work / Field Visit

YOGA

UNIT-1	Yoga for Health Promotion – I
UNIT-2	Yoga for Health Promotion – II
UNIT-3	Yoga for Health Promotion – III