

परमाणु ऊर्जा शिक्षण संस्था / ATOMIC ENERGY EDUCATION SOCIETY
पाठ्यक्रम का संशोधित माहवार ब्यौरा / Revised Month-wise Break-up of Syllabus : 2026-27

कक्षा /Class- XII
SUBJECT - ENGLISH CORE (301)

Month	Days	Flamingo	Vistas	Writing Skills	Remarks
April and May	23	Introduction and Syllabus, Question Paper Pattern Lesson 1: The Last Lesson by Alphonse Daudet Lesson 1: My Mother at Sixty-Six (Poetry) by Kamala Das	Lesson 1: The Third Level by Jack Finney Lesson 2: The Tiger King by Kalki	Notices	
June	12	Lesson 2: Lost Spring by Anees Jung Lesson 2: Keeping Quiet by Pablo Neruda (Poetry)		Letters to Editors	
July	26	Lesson 3: Deep Water by William Douglas Lesson 3: A Thing of Beauty (Poem) by John Keats	Lesson 3: Journey to the End of the Earth by Tishani Doshi	Applications for Jobs with Biodata	Syllabus for PT-1 All lessons, poems and topics covered till July 2026.
August	22	Lesson 4: The Rattrap Selma Lagerlof Lesson 4: A Roadside Stand (Poem)	Lesson 4: The Enemy by Pearl S. Buck	Article Writing on contemporary issues Report Writing	
September	20	Lesson 5: Indigo by Louis Fischer Lesson 5: Aunt Jennifer's Tigers (Poetry) by	Revision for HY	Report Writing Invitations: Letter Type	Syllabus for HY All lessons, poems and topics completed

		Adrienne Rich			till 31 August 2026
October	23/1 2	Lesson 6: Poets and Pancakes by Asokamitran	Lesson 5: On the Face of It by Susan Hill	Invitations (formal and informal) Invitations: Letter Type Invitations: Card Type	
November	12/2 3	Lesson 7: The Interview: Part I by Christopher Silvester Part II An Interview by Umberto Eco	Lesson 6: Memories of Childhood – The Cutting of My Long Hair by Zitkala-Sa	Formal & Informal Replies to invitations Applications for jobs	
December	16	Lesson 8: Going Places by A.R. Barton Revision and First Pre-Board Examination	Lesson 6: Memories of Childhood – We Too are Human Beings by Bama Revision and First Pre- Board Examination	CBSE Questions: Previous Years' Questions from CBSE Sample Papers	Syllabus for First Pre- Board: Complete Syllabus
January	22	Revision ASL Project Work	Revision ASL Project Work	Important Questions from CBSE Sample Papers	Syllabus for Second Pre- Board: Complete Syllabus
February	23	ASL & Revision	ASL & Revision	ASL & Revision Reading Comprehension	
March	5	ANNUAL EXAM			

BLUE PRINT OF ENGLISH CORE (301)

Section	Competencies	Total marks
Reading Skills	Conceptual understanding, decoding, Analyzing, inferring, interpreting, appreciating , literary, conventions and vocabulary, summarizing and using appropriate format/s.	22
Creative Writing Skills	Conceptual Understanding, application of rules, Analysis, Reasoning, appropriate style and tone, using appropriate format and fluency, inference, analysis, evaluation and creativity.	18
Literature Text Book and Supplementary Reading Text	Recalling, reasoning, critical thinking, appreciating literary convention, inference, analysis, creativity with fluency.	40
	TOTAL	80
Internal Assessment	Assessment of Listening and Speaking Skills	10
	• Listening • Speaking	5+5
	• Project Work	10
	GRAND TOTAL	100

SUBJECT - HINDI (302)

Sl. No	Month	No. of Working days	Chapters/Lessons/Units to be taught in that month	Remarks
1	April	21	आरोह भाग-2 पद्य पाठ-1. आत्म-परिचय , दिन जल्दी- जल्दी ढलता है गद्य 10. भक्तिन , अभिव्यक्ति और माध्यम पाठ-3 , 4	
2	May	2	गद्य 10. भक्तिन	
3.	June	12	पद्य 2.पतंग गद्य 11. बाजार दर्शन वितान भाग -2 1.सिल्वर वैडिंग	
4.	July	26	पद्य 3.कविता के बहाने, बात सीधी थी पर गद्य 12.काले मेघा पानी दे अभिव्यक्ति और माध्यम पाठ -5, कहानी का नाट्य रूपांतरण अपठित गद्यांश/पद्यांश , अप्रत्याशित विषयों पर रचनात्मक लेखन ,	PT-1 Syllabus आरोह भाग-2 पद्य पाठ-1. आत्म-परिचय , दिन जल्दी- जल्दी ढलता है गद्य 10. भक्तिन अभिव्यक्ति और माध्यम पाठ-3 , 4 पद्य 2.पतंग गद्य 11. बाजार दर्शन वितान भाग -2 1.सिल्वर वैडिंग
5.	August	22	पद्य 4. कैमरे में बंद अपाहिज गद्य 13. पहलवान की ढोलक वितान 2. जूझ पत्रकारिता और जनसंचार माध्यमों के लिए लेखन	
6.	September	20	पद्य -5. उषा	PT-2 Syllabus

			गद्य -14. शिरीष के फूल अर्द्धवार्षिक परीक्षा	पद्य 4. कैमरे में बंद अपाहिज गद्य 13. पहलवान की ढोलक वितान 2. जूझ पत्रकारिता और जनसंचार माध्यमों के लिए लेखन
7.	October	23/12	पद्य 6. बादल राग अभिव्यक्ति और माध्यम पाठ -11 , 12	Diwali Break (10 days)
8.	November	12/23	पद्य 7.कवितावली, लक्ष्मण- मूर्च्छा और राम विलाप 8.रुबाइयां गद्य -15.श्रम विभाजन और जाति प्रथा वितान- 3. अतीत में दबे पाँव अभिव्यक्ति और माध्यम- रेडियो नाटक	
9.	December	16	पद्य- 9. छोटा मेरा खेत , बगुलों के पंख अभिव्यक्ति और माध्यम पाठ – 13,	Practice Test – 1 (Complete Syllabus) Winter Break (11days)
10.	January	22	पुनरावृत्ति	Practice Test – 2 (Complete Syllabus)
11.	February	23	Board Exam	
12.	March	5	Board Exam	

PHYSICS (042)

SN	Month	No. of working days	Name of the chapter/topic to be covered
1	April & May	23	UNIT-1: Electrostatics (26 periods) Chapter-1: Electric Charges and Fields Chapter-2: Electrostatic Potential and Capacitance PRACTICALS: SECTION A EXPT 1: To determine resistivity of two / three wires by plotting a graph for potential difference versus current. EXPT 2. To find resistance of a given wire / standard resistor using metre bridge.
2	June	12	Unit II: Chapter 3: Current Electricity(8 Periods) PRACTICALS: SECTION-A EXPT 3: To verify the laws of combination (series) of resistances using a metre bridge. OR To verify the laws of combination (parallel) of resistances using a metre bridge
3	July	26	Unit III: Magnetic Effects of Current and Magnetism (25 periods) Chapter-4: Moving Charges and Magnetism Chapter-5: Magnetism and Matter EXPT-4: To determine resistance of a galvanometer by half-deflection method and to find its figure of merit. PT-1 UP TO JULY SYLLABUS
4	August	22	Unit IV: Electromagnetic Induction and Alternating Currents (24 periods) Chapter-6: Electromagnetic Induction Chapter-7: Alternating Current Unit V: Electromagnetic Waves (4 periods) Chapter-8 Electromagnetic Wave
			SECTION A ACTIVITIES 1 TO 3
			SECTION-B EXPT-1 To find the focal length of a convex lens

			by plotting graphs between u and v or between $1/u$ and $1/v$. EXPT-2 To determine refractive index of a glass slab using a travelling microscope.
			SECTION-B ACTIVITY-1
			Unit VI: Optics (30 periods)
			Chapter-9: Ray Optics and Optical Instruments (20 periods)
5	September	20	SECTION-B EXPT-3 To find the refractive index of a liquid using convex lens and plane mirror. <i>HALF YEARLY EXAMINATION UP TO SEPTEMBER SYLLABUS</i>
			Chapter-10: Chapter-10: Wave Optics (10 periods)
			Unit VII: Dual Nature of Radiation and Matter (8 periods)
			Chapter-11: Dual Nature of Radiation and Matter
			SECTION-B EXPT-4 To draw the I-V characteristic curve for a p-n junction diode in forward and reverse bias.
			SECTION B- ACTIVITY-3
			Unit VIII: Atoms and Nuclei (15 periods)
7	November	12/23	Unit VIII: Atoms and Nuclei (15 periods) Chapter-13: Nuclei (8 periods) Chapter-14: Semiconductors Electronic Materials, Devices and simple Circuits (10 Periods)
8	December	18	Revision and First Confidence Examination
9	January	22	Remedial Classes, Second Confidence Examination Pre-Board Practical Examination And Board Practical Examination
10	February	10	Remedial Classes CBSE EXAMINATION 2027

Class XII Physics Blueprint (Theory – 70 Marks)

Unit	Topics	Marks
Electrostatics	Electric Charges & Fields, Electrostatic Potential and Capacitance	16
Current Electricity	Current Electricity	7
Magnetic Effects of Current & Magnetism	Moving Charges & Magnetism, Magnetism & Matter	8
Electromagnetic Induction & Alternating Current	EMI, AC	8
Electromagnetic Waves	Electromagnetic Waves	2
Optics	Ray Optics & Optical Instruments, Wave Optics	14
Dual Nature & Radiation	Dual Nature of Radiation and Matter	6
Atoms & Nuclei	Atoms, Nuclei	5
Electronic Devices	Semiconductor Electronics	4
	Total	70

Question Pattern

- 50% Competency-based questions
- 20% MCQs
- 30% Short and Long Answer questions

CHEMISTRY (043)

Sr No	MONTH	No. of Teaching Days	UNIT/ CHAPTER /LESSON NO.TAUGHT	NAME/ TITLE OF CHAPTER.	EXAMINATION AND PORTION FOR THE EXAM
1	APRIL & MAY	23	UNIT 1	SOLUTIONS: 1.1 Types of Solutions 1.2 Expressing Concentration of Solutions 1.3 Solubility 1.4 Vapour Pressure of Liquid Solutions 1.5 Ideal and Non-ideal Solutions 1.6 Colligative Properties and Determination of Molar Mass 1.7 Abnormal Molar Masses ELECTROCHEMISTRY: 2.1 Electrochemical Cells 2.2 Galvanic Cells 2.3 Nernst Equation 2.4 Conductance of Electrolytic Solutions Practical's: Volumetric Analysis	
2	JUNE	12	UNIT 2	ELECTROCHEMISTRY: continued 2.5 Electrolytic Cells and Electrolysis 2.6 Batteries 2.7 Fuel Cells 2.8 Corrosion Practical's: Salt analysis	
3	JULY	26	UNIT 3	CHEMICAL KINETICS: 3.1 Rate of a Chemical Reaction 3.2 Factors Influencing Rate of a Reaction	PT 1

			UNIT 4	3.3 Integrated Rate Equations 3.4 Pseudo First Order Reaction 3.5 Temperature Dependence of the Rate of a Reaction 3.6 Collision Theory of Chemical Reactions D AND F BLOCK ELEMENTS: 4.1 Position in the Periodic Table 4.2 Electronic Configurations of the d-Block Elements 4.3 General Properties of the Transition Elements (d-Block) 4.4 Some important Compounds of Transition Elements 4.5 The Lanthanoids 4.6 The Actinoids 4.7 Some Applications of d- and f-Block Elements Practicals: Salt analysis	
4	AUGUST	22	UNIT 5	COORDINATION CHEMISTRY: 5.1 Werner's Theory of Coordination Compounds 5.2 Definition of Some Important Terms Pertaining to Coordination Compounds 5.3 Nomenclature of Coordination Compounds 5.4 Isomerism in Coordination Compounds 5.5 Bonding in Coordination Compounds 5.6 Bonding in Metal Carbonyls 5.7 Stability of Coordination Compounds	

			UNIT 6	5.8 Importance and Applications of Coordination Compounds HALOALKANES AND HALOARENES: 6.1 Classification 6.2 Nomenclature 6.3 Nature of C–X Bond 6.4 Methods of Preparation of Haloalkanes 6.5 Preparation of Haloarenes 6.6 Physical Properties 6.7 Chemical Reactions 6.8 Polyhalogen Compounds Practical's: salt analysis	
5	SEP	20	UNIT 7	ALCOHOLS ,PHENOLS AND ETHERS: 7.1 Classification 7.2 Nomenclature 7.3 Structures of Functional Groups 7.4 Alcohols and Phenols 7.5 Some Commercially Important Alcohols 7.6 Ethers Practical's: Content based experiments.	PT-2 (UNITS 1 to 6)
6	OCT	23/12	UNIT 8	ALDEHYDES ,KETONES AND CARBOXYLIC ACID: 8.1 Nomenclature and Structure of Carbonyl Group 8.2 Preparation of Aldehydes and Ketones 8.3 Physical Properties 8.4 Chemical Reactions 8.5 Uses of Aldehydes and Ketones	

9	JAN	22		Revision and Confidence Tests	
					PreBoard 2

Blue print

Sr. no		1mks	2 mks	3mks	4mks	5mks	Total
1	Solution	10		23,28			7
2	Electrochemistry	9		22	30		9
3	Chemical kinetics	6,8				32	7
4	d and f block elements	7	19		29		7
5	Coordination compounds		18			31	7
6	Haloalkane and haloarenes	5,15	20	24			6
7	Alcohols, phenols and ethers	4,12,16		25			6
8	Aldehydes, ketones and Carboxylic acids	3,11,13	17	26			8
9	Amines	2				33	6
10	Biomolecules	1,14	21	27			7

SUBJECT - BIOLOGY (044)

MONTH	NO. OF WORKING DAYS	CHAPTERS TO BE TAUGHT	EXAMINATION AND PORTION FOR THE EXAM
April & May	23	Chapter-2: Sexual Reproduction in Flowering Plants Chapter-3: Human Reproduction Chapter-4: Reproductive Health	
June	12	Chapter-5: Principles of Inheritance and Variation	
July	26	Chapter-6: Molecular Basis of Inheritance Chapter-7: Evolution	UT-01 (UP TO THE CHAPTER-04)
August	22	Chapter-8: Human Health and Diseases Chapter-10: Microbes in Human Welfare	
September	20	Chapter-11: Biotechnology – Principles and Processes Chapter-12: Biotechnology and its Applications	
		Half Yearly	Half Yearly (UP TO THE CHAPTER-10)
October	23/12	Chapter-13: Organisms and populations	
	Diwali break (10 days) Grp-A and Grp-B		
November	12/23	Chapter-14: Ecosystem Chapter-15: Biodiversity and its Conservation	

December	16		Revision and Confidence Tests (Full Syllabus)
	Winter Break (11 days) Grp-A and Grp-B		
January	22		Revision and Confidence Tests (Full Syllabus)
Feb	23	Board Examination	

BLUE-PRINT CLASS XII 2026-27		
Unit	Title	Marks
VI	Reproduction	16
VII	Genetics and Evolution	20
VIII	Biology and Human Welfare	12
IX	Biotechnology and its Applications	12
X	Ecology and Environment	10
		Total 70

SUBJECT - MATHEMATICS (041)

Sr. No.	Month	No. of working days	Unit/ Chapter/ Topics	Examination
1	April & May	23	3. Matrices 4. 4.Determinants	
2	June	12	1. Relations and Functions	
3	July	26	1. Relations and Functions (continued) 2. Inverse Trigonometric Functions	PT – I (Syllabus- Lessons -1, 2, 3 & 4)
4	August	22	5. Continuity and Differentiability. 6. Application of Derivatives.	
5	September	20	7. Integrals 8. Application of Integrals	PT – II/Half Yearly (Lessons 1 to 7)
6	October	23/12	9. Differential Equations	
7	November	12/23	10.Vector Algebra 11.Three-Dimensional Geometry. 12. Linear Programming	
8	December	16	13. Probability	PRE-BOARD Exam.- I
9	January	22	Revision for PRE-BOARD Examination Activity Test	PRE-BOARD Exam.- II
10	February	10	Revision for Board Exam - 2027	BOARD EXAM
11	March	---		BOARD EXAM

Weightage for Board Examination 2026-27

Class: XII

Subject: MATHEMATICS (041)

Time: Three Hours

Max Marks: 80

No.	Units	Marks
I.	Relations and Functions	08
II.	Algebra	10
III.	Calculus	35
IV.	Vectors and Three - Dimensional Geometry	14
V.	Linear Programming	05
VI.	Probability	08
	Total	80
	Internal Assessment	20

***No chapter/unit-wise weightage. Care will be taken to cover all the chapters.**

[Ref: CBSE Curriculum for Senior Secondary Mathematics (2026-27)]

SUBJECT - COMPUTER SCIENCE (083)

Month	No. of Working Days	Theory (70 Marks)	Practical (30 Marks)
April & May	24	Unit 1: Computational Thinking and Programming - 2 ● Revision of Python topics covered in Class XI. ● Functions: types of function (built-in functions, functions defined in module, user defined functions), creating user defined function, arguments and parameters, default parameters, positional parameters, function returning value(s), flow of execution, scope of a variable (global scope, local scope) ● Introduction to files, types of files (Text file, Binary file, CSV file), relative and absolute paths.	Python Programs using Functions
June	10	● Text file: opening a text file, text file open modes (r, r+, w, w+, a, a+), closing a text file, opening a file using with clause, writing/appending data to a text file using write() and writelines(), reading from a text file using read(), readline() and readlines(), seek and tell methods, manipulation of data in a text file.	Python Programs using Text files
July	24	● Binary file: basic operations on a binary file: open using file open modes (rb, rb+, wb, wb+, ab, ab+), close a binary file, import pickle module, dump() and load() method, read, write/create, search, append and update operations in a binary file. ● Exception Handling: Introduction, handling exceptions using try-except-finally Blocks.	Python Programs using Binary files with try and except errors
Aug	22	● CSV file: import csv module, open / close csv file, write into a csv file using writer(), writerow(), writerows() and read from a csv file using reader() ● Data Structure: Stack, operations on stack (push & pop), implementation of stack using list.	Python Programs using CSV files

			and Stacks
Sep	18	Unit 3: Database Management ● Database concepts: introduction to database concepts and its need ● Relational data model: relation, attribute, tuple, domain, degree, cardinality, keys (candidate key, primary key, alternate key, foreign key) ● Structured Query Language: introduction, Data Definition Language and Data Manipulation Language, data type (char(n), varchar(n), int, float, date), constraints (not null, unique, primary key), create database, use database, show databases, drop database, show tables, create table, describe table, alter table (add and remove an attribute, add and remove primary key), drop table, insert, delete, select, operators (mathematical, relational and logical), aliasing, distinct clause, where clause, in, between, order by, meaning of null, is null, is not null, like, update command, delete command, aggregate functions (max, min, avg, sum, count), group by, having clause, joins: cartesian product on two tables, equi-join and natural joins.	SQL comm nds of Create, Alter, Update, Insert into
Oct	20	● Interface of python with an SQL database: connecting SQL with Python, performing insert, update, delete queries using cursor, display data by using connect(), cursor(), execute(), commit(), fetchone(), fetchall(), rowcount, creating database connectivity applications, use of %s format specifier or format() to perform queries.	SQL comm nds of simple queries, having, group by and Joins.
Nov	23	Unit 2: Computer Networks ● Evolution of networking: introduction to computer networks, evolution of networking (ARPANET, NSFNET, INTERNET) ● Data communication terminologies: concept of communication, components of data communication (sender, receiver, message, communication media, protocols), measuring capacity of communication media (bandwidth, data transfer rate), IP address,	Project work

		switching techniques (Circuit switching, Packet switching) ● Transmission media: Wired communication media (Twisted pair cable, Co-axial cable, Fiber-optic cable), Wireless media (Radio waves, Micro waves, Infrared waves) ● Network devices (Modem, Ethernet card, RJ45, Repeater, Hub, Switch, Router, Gateway, WIFI card) ● Network topologies and Network types: types of networks (PAN, LAN, MAN, WAN), networking topologies (Bus, Star, Tree) ● Network protocol: HTTP, FTP, PPP, SMTP, TCP/IP, POP3, HTTPS, TELNET, VoIP ● Introduction to web services: WWW, Hyper Text Markup Language (HTML), Extensible Markup Language (XML), domain names, URL, website, web browser, web servers, web hosting.	
Dec	18	Revision, Project Work & Pre-Board Examination I	
Jan-Feb	--	Pre-Board Examination 2 & AISSCE Practical Examination.	

STD XII BLUEPRINT 2026-27

SECTIONS	TOTAL QUES	Q.NO	MARKS	QUES TYPE	TOTAL MARKS
SECTION A	21	1-21	1 MARK	MCQ	21
SECTION B	7	22-28	2 MARK	VSA	14
SECTION C	3	29-31	3 MARK	SA	09
SECTION D	4	32-35	4 MARK	LA	16
SECTION E	2	36-37	5 MARK	LA	10
TOTAL QNS	37				70

SECTIONS →	A(1)	B(2)	C(3)	D(4)	E(5)	T.M
------------	------	------	------	------	------	-----

UNIT I						
Revision of Python	9m	10m				19
Functions	2m					02
Exception handling	1m					01
Introduction to files						
Text file:	1m		3m			04
Binary file:					5m	05
CSV file:				4m		04
Data Structure:			3m			03
UNIT II						
Evolution of networking:						
Network Terminologies					1m	01
Types of Networks					1m	01
Switching Techniques						
Data communication terminologies	1m					01
Transmission media						01
Network devices	1m				2m	02
Network topologies and types		2m				02
Network protocol	1m	2m *			1m	02
Introduction to web services:						
UNIT III						
Database concepts						
Relational data model	1m	2m				03
Structured Query Language	4m	2m *	3m	8m		15
Interface of python				4m		04
NUMBER OF QUESTIONS	21	07	03	04	02	70
TOTAL MARKS	21	14	09	16	10	