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Class X Syllabus

Academic Session 2026-27

For Board Examinations 2027

English | हिंदी A & B | Mathematics | Science | Social Science

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Contents

CLASS X · 2026-27

01 Scheme of Studies & Examination 1
02 English Language & Literature (184) 3
03 Hindi Course A (002) 5
04 Hindi Course B (085) 6
05 Mathematics – Standard (041) & Basic (241) 7
06 Science (086) 10
07 Social Science (087) 13
08 Internal Assessment & Exam Tips 15

About this document. This is the Class X syllabus for students appearing in the **CBSE Board Examinations 2027** (session 2026-27). CBSE's new curriculum (third language, advanced-level papers) begins with Class IX in 2026-27 and does **not** change the 2027 Class X examinations. Content is arranged subject-wise for easy reading. Always confirm the final official syllabus at **cbseacademic.nic.in**.

Scheme of Studies

Subject	Status	Theory	Internal	Total
Language 1 – English / Hindi	Compulsory	80	20	100
Language 2 – Hindi / English / other	Compulsory	80	20	100
Mathematics (Standard or Basic)	Compulsory	80	20	100
Science	Compulsory	80	20	100
Social Science	Compulsory	80	20	100
Skill subject / Language 3 (optional)	Optional			as per subject
Health & Physical Education, Work Experience, Art Education	Compulsory (school-assessed)			graded internally

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Two Board Examinations

Feb–Mar	May	Up to 3	Best score
Main exam (compulsory)	Second exam (optional)	subjects can be improved	counts on the marksheet

- The **main examination** in February–March is compulsory for all students.
- The **second examination** in May is optional and is for improving performance in up to three subjects among Science, Mathematics, Social Science and the languages.
- Both examinations are based on the **same full syllabus**. The better of the two scores is counted.
- A student who does not appear in three or more subjects in the main examination cannot take the second examination.

Passing Criteria & Question Paper Design

- A student must obtain at least **33%** in each subject, in theory and internal assessment taken separately.
- Papers are of **3 hours** and include objective (MCQ, assertion–reason), very short, short and long answer questions, and source / case-based questions.
- Competency-focused questions form a large part of each paper; internal choice of about 33% is provided.

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English Language & Literature

CODE 184

Theory 80 marks · Internal assessment 20 marks · Time 3 hours

Section	Area	Marks
A	Reading Skills	20
B	Grammar & Writing Skills	20
C	Literature (textbooks & supplementary reader)	40
	Total (Theory)	**80**

Section A – Reading Skills (20)

- **Discursive passage** (400–450 words) to assess inference, evaluation, vocabulary and analysis — 10 marks.
- **Case-based factual passage** (with visual / verbal input, 300–350 words) to assess interpretation and analysis — 10 marks.

Section B – Grammar & Writing Skills (20)

Grammar — 10 marks

- Tenses
- Modals
- Subject–verb concord
- Reported speech: commands & requests, statements, questions
- Determiners

Tested through gap filling, editing and transformation exercises.

Writing — 10 marks

- **Formal letter** — letter of complaint, inquiry or placing an order (5)
- **Analytical paragraph** on a chart, graph, table, map, cue or data (5)

Section C – Literature (40)

Extract-based questions from prose and poetry, short answer questions and long answer questions to test interpretation, appreciation and values.

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First Flight (NCERT)

Prose	Poetry
A Letter to God	Dust of Snow
Nelson Mandela: Long Walk to Freedom	Fire and Ice
Two Stories about Flying	A Tiger in the Zoo
From the Diary of Anne Frank	How to Tell Wild Animals
Glimpses of India	The Ball Poem
Mijbil the Otter	Amanda!
Madam Rides the Bus	The Trees
The Sermon at Benares	Fog
The Proposal (Play)	The Tale of Custard the Dragon
	For Anne Gregory

Footprints without Feet – Supplementary Reader (NCERT)

A Triumph of Surgery · The Thief's Story · The Midnight Visitor · A Question of Trust · Footprints without Feet · The Making of a Scientist · The Necklace · Bholi · The Book that Saved the Earth

Internal assessment (20): periodic tests, multiple assessment, portfolio and **Assessment of Listening and Speaking Skills (ALS)**.

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हिंदी पाठ्यक्रम 'अ'

CODE 002

सैद्धांतिक 80 अंक · आंतरिक मूल्यांकन 20 अंक · समय 3 घंटे

खंड	विषय-वस्तु	अंक
क	अपठित गद्यांश एवं अपठित काव्यांश	14
ख	व्याकरण	16
ग	पाठ्यपुस्तक – क्षितिज भाग 2 एवं पूरक पाठ्यपुस्तक – कृतिका भाग 2	30
घ	रचनात्मक लेखन	20
	कुल (सैद्धांतिक)	**80**

खंड ख – व्याकरण

रचना के आधार पर वाक्य भेद | वाच्य | पद परिचय | अलंकार (अर्थालंकार)

खंड ग – पाठ्यपुस्तकें

क्षितिज भाग 2 – काव्य खंड

- सूरदास – पद
- तुलसीदास – राम-लक्ष्मण-परशुराम संवाद
- जयशंकर प्रसाद – आत्मकथ्य
- सूर्यकांत त्रिपाठी 'निराला' – उत्साह, अट नहीं रही है
- नागार्जुन – यह दंतुरित मुसकान, फसल
- मंगलेश डबराल – संगतकार

क्षितिज भाग 2 – गद्य खंड

- स्वयं प्रकाश – नेताजी का चश्मा
- रामवृक्ष बेनीपुरी – बालगोबिन भगत
- यशपाल – लखनवी अंदाज़
- मन्नू भंडारी – एक कहानी यह भी
- यतींद्र मिश्र – नौबतखाने में इबादत
- भदंत आनंद कौसल्यायन – संस्कृति

कृतिका भाग 2 (पूरक पाठ्यपुस्तक)

- माता का अँचल – शिवपूजन सहाय
- साना-साना हाथ जोड़ि – मधु कांकरिया
- मैं क्यों लिखता हूँ? – अज्ञेय

खंड घ – रचनात्मक लेखन

अनुच्छेद लेखन | औपचारिक पत्र | स्ववृत्त लेखन / औपचारिक ई-मेल | विज्ञापन लेखन / संदेश लेखन

आंतरिक मूल्यांकन (20): आवधिक परीक्षा, बहुविध आकलन, पोर्टफ़ोलियो तथा श्रवण एवं वाचन कौशल का आकलन।

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हिंदी पाठ्यक्रम 'ब'

CODE 085

सैद्धांतिक 80 अंक · आंतरिक मूल्यांकन 20 अंक · समय 3 घंटे

खंड	विषय-वस्तु	अंक
क	अपठित गद्यांश	14
ख	व्याकरण	16
ग	पाठ्यपुस्तक – स्पर्श भाग 2 एवं पूरक पाठ्यपुस्तक – संचयन भाग 2	30
घ	रचनात्मक लेखन	20
	कुल (सैद्धांतिक)	**80**

खंड ख – व्याकरण

पदबंध | रचना के आधार पर वाक्य रूपांतरण | समास | मुहावरे

खंड ग – पाठ्यपुस्तकें

स्पर्श भाग 2 – काव्य खंड

- कबीर – साखी
- मीरा – पद
- मैथिलीशरण गुप्त – मनुष्यता
- सुमित्रानंदन पंत – पर्वत प्रदेश में पावस
- वीरेन डंगवाल – तोप
- कैफ़ी आज़मी – कर चले हम फ़िदा
- रवींद्रनाथ ठाकुर – आत्मत्राण

स्पर्श भाग 2 – गद्य खंड

- प्रेमचंद – बड़े भाई साहब
- सीताराम सेकसरिया – डायरी का एक पन्ना
- लीलाधर मंडलोई – तताँरा-वामीरो कथा
- प्रह्लाद अग्रवाल – तीसरी कसम के शिल्पकार शैलेंद्र
- निदा फ़ाज़ली – अब कहाँ दूसरे के दुख से दुखी होने वाले
- रवींद्र केलेकर – पतझर में टूटी पत्तियाँ
- हबीब तनवीर – कारतूस (एकांकी)

संचयन भाग 2 (पूरक पाठ्यपुस्तक)

- मिथिलेश्वर – हरिहर काका
- गुरदयाल सिंह – सपनों के-से दिन
- राही मासूम रज़ा – टोपी शुक्ला

खंड घ – रचनात्मक लेखन

अनुच्छेद लेखन | पत्र लेखन | सूचना / ई-मेल लेखन | विज्ञापन लेखन | लघुकथा लेखन

आंतरिक मूल्यांकन (20): आवधिक परीक्षा, बहुविध आकलन, पोर्टफ़ोलियो तथा श्रवण एवं वाचन कौशल का आकलन।

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Mathematics

041 STANDARD · 241 BASIC

Theory 80 marks · Internal assessment 20 marks · Time 3 hours · Same syllabus for Standard and Basic; papers differ in difficulty

Unit	Unit name	Marks
I	Number Systems	06
II	Algebra	20
III	Coordinate Geometry	06
IV	Geometry	15
V	Trigonometry	12
VI	Mensuration	10
VII	Statistics & Probability	11
	Total (Theory)	**80**

Unit I – Number Systems — 06

1. Real Numbers

Fundamental Theorem of Arithmetic — statements after reviewing work done earlier and after illustrating and motivating through examples. Proofs of irrationality of √2, √3, √5.

Unit II – Algebra — 20

1. Polynomials

Zeroes of a polynomial. Relationship between zeroes and coefficients of quadratic polynomials.

2. Pair of Linear Equations in Two Variables

Pair of linear equations in two variables and graphical method of their solution; consistency / inconsistency. Algebraic conditions for the number of solutions. Solution algebraically — by substitution and by elimination. Simple situational problems.

3. Quadratic Equations

Standard form $ax^2 + bx + c = 0$ ($a \neq 0$). Solutions by factorisation and by the quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day-to-day activities.

4. Arithmetic Progressions

Motivation for studying AP. Derivation of the n^{th} term and sum of the first n terms of an AP and their application in solving daily-life problems.

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Unit III – Coordinate Geometry 06

Lines (in two dimensions)

Review of concepts of coordinate geometry done earlier, including graphs of linear equations. Distance formula. Section formula (internal division).

Unit IV – Geometry 15

1. Triangles

Definitions, examples and counter-examples of similar triangles.

- (Prove) If a line is drawn parallel to one side of a triangle to intersect the other two sides in distinct points, the other two sides are divided in the same ratio.
- (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.
- (Motivate) AAA, SSS and SAS criteria of similarity of triangles.

2. Circles

Tangent to a circle at the point of contact.

- (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact.
- (Prove) The lengths of tangents drawn from an external point to a circle are equal.

Unit V – Trigonometry 12

1. Introduction to Trigonometry

Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined). Values of the ratios at 30°, 45° and 60°. Relationships between the ratios.

2. Trigonometric Identities

Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given.

3. Heights and Distances

Angle of elevation, angle of depression. Simple problems on heights and distances; not more than two right triangles; angles of elevation / depression only 30°, 45° and 60°.

Unit VI – Mensuration 10

1. Areas Related to Circles

Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above plane figures. (Segment problems limited to central angle of 60°, 90° and 120° only.)

2. Surface Areas and Volumes

Surface areas and volumes of combinations of any two of: cubes, cuboids, spheres, hemispheres and right circular cylinders / cones.

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Unit VII – Statistics & Probability 11

1. Statistics

Mean, median and mode of grouped data (bimodal situation to be avoided).

2. Probability

Classical definition of probability. Simple problems on finding the probability of an event.

Internal assessment (20): periodic tests (5), multiple assessment (5), portfolio (5) and student enrichment activities / mathematics lab practicals (5).

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Science

CODE 086

Theory 80 marks · Internal assessment 20 marks · Time 3 hours

Unit	Unit name	Marks
I	Chemical Substances – Nature and Behaviour	25
II	World of Living	25
III	Natural Phenomena	12
IV	Effects of Current	13
V	Natural Resources	05
	Total (Theory)	**80**

Unit I – Chemical Substances: Nature and Behaviour — 25

Chemical Reactions and Equations

Chemical equation, balanced chemical equation, implications of a balanced chemical equation. Types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, endothermic and exothermic reactions, oxidation and reduction.

Acids, Bases and Salts

Definitions in terms of furnishing H^+ and OH^- ions, general properties, examples and uses; neutralisation; concept of pH scale (definition relating to logarithm not required); importance of pH in everyday life. Preparation and uses of sodium hydroxide, bleaching powder, baking soda, washing soda and plaster of Paris.

Metals and Non-metals

Properties of metals and non-metals; reactivity series; formation and properties of ionic compounds; basic metallurgical processes; corrosion and its prevention.

Carbon and its Compounds

Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohol, ketones, aldehydes, alkanes and alkynes); difference between saturated and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reactions). Ethanol and ethanoic acid (only properties and uses); soaps and detergents.

Unit II – World of Living — 25

Life Processes

"Living being". Basic concept of nutrition, respiration, transport and excretion in plants and animals.

Control and Coordination in Animals and Plants

Tropic movements in plants; introduction of plant hormones; control and coordination in animals: nervous system; voluntary, involuntary and reflex action; chemical coordination: animal

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hormones.

Reproduction

Reproduction in animals and plants (asexual and sexual); reproductive health — need and methods of family planning; safe sex vs HIV/AIDS; child-bearing and women's health.

Heredity

Heredity; Mendel's contribution — laws for inheritance of traits; sex determination: brief introduction.

Unit III – Natural Phenomena 12

Reflection of light by curved surfaces; images formed by spherical mirrors, centre of curvature, principal axis, principal focus, focal length, mirror formula (derivation not required), magnification.

Refraction; laws of refraction, refractive index. Refraction of light by a spherical lens; image formed by spherical lenses; lens formula (derivation not required); magnification. Power of a lens.

Functioning of a lens in the human eye, defects of vision and their corrections, applications of spherical mirrors and lenses.

Refraction of light through a prism, dispersion of light, scattering of light, applications in daily life (excluding colour of the sun at sunrise and sunset).

Unit IV – Effects of Current 13

Electricity

Electric current, potential difference and electric current. Ohm's law; resistance, resistivity, factors on which the resistance of a conductor depends. Series combination of resistors, parallel combination of resistors and its applications in daily life. Heating effect of electric current and its applications in daily life. Electric power, interrelation between P, V, I and R.

Magnetic Effects of Current

Magnetic field, field lines, field due to a current-carrying conductor, field due to a current-carrying coil or solenoid; force on a current-carrying conductor, Fleming's left-hand rule; direct current, alternating current — frequency of AC; advantage of AC over DC; domestic electric circuits.

Unit V – Natural Resources 05

Our Environment

Ecosystem, environmental problems, ozone depletion, waste production and their solutions; biodegradable and non-biodegradable substances.

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List of Experiments (Practical Work)

No.	Experiment	Unit
1	Find the pH of samples (dilute HCl, dilute NaOH, dilute ethanoic acid, lemon juice, water, dilute sodium bicarbonate) using pH paper / universal indicator; study properties of acids and bases (HCl & NaOH) by their reaction with litmus, zinc metal and solid sodium carbonate.	I
2	Perform and observe reactions and classify them: action of water on quicklime; action of heat on ferrous sulphate crystals; iron nails kept in copper sulphate solution; reaction between sodium sulphate and barium chloride solutions.	I
3	Observe the action of Zn, Fe, Cu and Al metals on salt solutions ($ZnSO_4$, $FeSO_4$, $CuSO_4$, $Al_2(SO_4)_3$) and arrange the metals in decreasing order of reactivity.	I
4	Study the dependence of potential difference (V) across a resistor on the current (I) through it and determine its resistance; plot the V–I graph.	IV
5	Determine the equivalent resistance of two resistors connected in series and in parallel.	IV
6	Prepare a temporary mount of a leaf peel to show stomata.	II
7	Experimentally show that carbon dioxide is given out during respiration.	II
8	Study the properties of acetic acid (ethanoic acid): odour, solubility in water, effect on litmus, reaction with sodium hydrogen carbonate.	I
9	Study the comparative cleaning capacity of a sample of soap in soft and hard water.	I
10	Determine the focal length of (i) a concave mirror and (ii) a convex lens by obtaining the image of a distant object.	III
11	Trace the path of a ray of light passing through a rectangular glass slab for different angles of incidence; measure the angle of incidence, refraction and emergence and interpret the result.	III
12	Study (a) binary fission in Amoeba and (b) budding in yeast and Hydra with the help of prepared slides.	II
13	Trace the path of rays of light through a glass prism.	III
14	Identify the different parts of an embryo of a dicot seed (pea, gram or red kidney bean).	II

Internal assessment (20): periodic assessment (best two of three tests, 5) + multiple assessment (5), subject enrichment – practical work (5) and portfolio (5). Practicals are assessed by the school.

Question paper design: Demonstrate knowledge & understanding **50%** · Application of knowledge / concepts **30%** · Formulate, analyse, evaluate & create **20%**.

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Social Science

CODE 087

Theory 80 marks · Internal assessment 20 marks · Time 3 hours

No.	Unit (Textbook)	Marks
I	History – India and the Contemporary World II	20
II	Geography – Contemporary India II	20
III	Political Science – Democratic Politics II	20
IV	Economics – Understanding Economic Development	20
	Total (Theory)	**80**

Map work is included within History (2 marks) and Geography (3 marks).

Unit I – History: India and the Contemporary World II — 20

Section 1 – Events and Processes

- **The Rise of Nationalism in Europe** — the French Revolution and the idea of the nation; the making of nationalism in Europe; the age of revolutions 1830–1848; the making of Germany and Italy; visualising the nation; nationalism and imperialism.
- **Nationalism in India** — the First World War, Khilafat and Non-Cooperation; differing strands within the movement; towards Civil Disobedience; the sense of collective belonging.

Section 2 – Livelihoods, Economies and Societies

- **The Making of a Global World** — the pre-modern world (sub-topics 1 to 1.3: silk routes link the world; food travels; conquest, disease and trade).
- **The Age of Industrialisation** — before the Industrial Revolution; hand labour and steam power; industrialisation in the colonies; factories come up; the peculiarities of industrial growth; market for goods.

Section 3 – Everyday Life, Culture and Politics

- **Print Culture and the Modern World** — the first printed books; print comes to Europe; the print revolution and its impact; the reading mania; the nineteenth century; India and the world of print; religious reform and public debates; new forms of publication; print and censorship.

Unit II – Geography: Contemporary India II — 20

- **Resources and Development** — types of resources; development of resources; resource planning in India; land resources; land utilisation; land use pattern in India; land degradation and conservation measures; soil as a resource; classification of soils; soil erosion and soil conservation.
- **Forest and Wildlife Resources**
- **Water Resources**
- **Agriculture** — types of farming; cropping pattern; major crops; technological and institutional reforms; impact of globalisation on agriculture.

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- **Minerals and Energy Resources** — what is a mineral; mode of occurrence; conservation of minerals; conventional and non-conventional sources of energy; conservation of energy resources.
- **Manufacturing Industries** — importance of manufacturing; contribution of industry to national economy; industrial location; classification of industries; spatial distribution; industrial pollution and environmental degradation; control of environmental degradation.
- **Lifelines of National Economy**

Note: In recent CBSE syllabi, *Forest and Wildlife Resources*, *Water Resources* and *Lifelines of National Economy* are marked for assessment in periodic tests only (not in the board examination). Please confirm this note in the official 2026-27 syllabus.

Unit III – Political Science: Democratic Politics II — 20

- **Power Sharing** — case studies of Belgium and Sri Lanka; why power sharing is desirable; forms of power sharing.
- **Federalism** — what is federalism; what makes India a federal country; how is federalism practised; decentralisation in India.
- **Gender, Religion and Caste** — gender and politics; religion, communalism and politics; caste and politics.
- **Political Parties** — why do we need political parties; how many parties should we have; national and state parties; challenges to political parties; how can parties be reformed.
- **Outcomes of Democracy** — how do we assess democracy's outcomes; accountable, responsive and legitimate government; economic growth and development; reduction of inequality and poverty; accommodation of social diversity; dignity and freedom of the citizens.

Unit IV – Economics: Understanding Economic Development — 20

- **Development** — what development promises; different people, different goals; income and other goals; national development; how to compare countries or states; income and other criteria; public facilities; sustainability of development.
- **Sectors of the Indian Economy** — sectors of economic activities; comparing the three sectors; primary, secondary and tertiary sectors in India; division of sectors as organised and unorganised; sectors in terms of ownership: public and private.
- **Money and Credit** — money as a medium of exchange; modern forms of money; loan activities of banks; two different credit situations; terms of credit; formal sector credit in India; self-help groups for the poor.
- **Globalisation and the Indian Economy** — production across countries; interlinking production across countries; foreign trade and integration of markets; what is globalisation; factors that have enabled globalisation; World Trade Organisation; impact of globalisation on India; the struggle for a fair globalisation.
- **Consumer Rights** — to be done as project work.

Internal assessment (20): periodic assessment (5), multiple assessment (5), portfolio (5) and subject enrichment activity / project work (5). Map items for History and Geography are notified in the official syllabus.

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Internal Assessment & Exam Tips

ALL SUBJECTS

Internal Assessment (20 marks per subject)

Component	What it covers	Marks
Periodic Tests	Pen-and-paper tests through the year; best scores considered	5
Multiple Assessment	Quizzes, oral tests, concept maps, exit cards, projects, presentations	5
Portfolio	Classwork, notebooks, reflections, achievements, peer and self assessment	5
Subject Enrichment	Science practicals · Maths lab activities · SS project · Language listening & speaking (ALS)	5
	Total	**20**

Vimsen Study Plan Tips

Term-wise planning

- Finish the full syllabus by December; keep January–February for revision and sample papers.
- Practise at least five CBSE sample papers per subject under timed conditions.
- Revise NCERT text and in-text questions first — most board questions are NCERT-based.

Scoring well

- Learn the competency-based question formats: case-based, source-based and assertion–reason.
- Keep a one-page formula / key-point sheet for every chapter.
- Use the optional May examination only to improve — prepare fully for February.

Disclaimer. This document is prepared by Vimsen Academy for student guidance, based on the CBSE Class X curriculum for 2026-27. For any difference, the official CBSE curriculum published at **cbseacademic.nic.in** is final.

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