

**Syllabus for Class X Session 2023-24
ENGLISH**

Month	Book Name	Chapter Name	Activity
April	First Flight	Ch1- Letter to God Poems- Dust Of Snow, Fire And Ice Ch2- Nelson Mandela: Long Walk To Freedom	Introduction of Individual Students (speaking skills)
	Footprints Without Feet	Ch1- Triumph Of Surgery	
	Writing & Grammar	Formal Letter	
May	First Flight	Ch 3- Two Stories About Flying, Poem- A Tiger In The Zoo,	Word Activities (To Improve Students vocabulary)
	Footprints without feet	Ch 2- The Thief's Story	
	Grammar	Tenses & Modals	
Periodic Test - I			
July	First Flight	Ch4- From The Diary Of Anne Frank Poems- How To Tell Wild	

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Month	Book Name	Chapter Name	Activity
		The Ball (Poem)	Extempore
	Footprints without feet	Ch3- The Midnight Visitor Ch4- A Question of Trust,	
	Grammar & Writing	Unseen passage. Analytical Paragraph Writing. Subject Verb Concord	
August	First Flight	Ch5- Glimpses Of India	ASL [To Improve student's listening and speaking skill]
	Footprints without feet	Ch5- Footprints without Feet, Ch6- The Making of a scientist Poem- Amanda	
	Grammar & Writing	Reported Speech, Determiners; Integrated grammar exercises	
Periodic Test - 2			
September	Half Yearly Examination		

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Month	Book Name	Chapter Name	Activity
October	First Flight	Ch. 6 Mijbil the Otter Ch7- Madam Rides The Bus Poems- The Trees, Fog, The Tale of Custard The Dragon	Debate
	Footprints without feet	Ch 7- The Necklace, Ch 8- Bholi	
November	First Flight	Ch8 - The Sermon At Benares Poem- For Anne Gregory Ch9- The Proposal	Dramatization to improve Dialogue speaking with gestures
	Footprints without feet	Ch 9- The Book That Saved The Earth Integrated Grammar Exercises	
Periodic Test - 3			
December		Preparation for Pre-Board	Prepare an analytical paragraph on a given topic
January		Revision	ASL
Feburary		Pre-Board	

**Syllabus for Class X Session 2023-24
SCIENCE**

Month	Subject	Book Name	Chapter Name	Activity/Practical
April	Physics	Science NCERT textbook	1. Reflection of light	Determination of the focal length of Concave mirror by obtaining the image of a distant object. Finding the pH of the following samples by using pH paper/universal indicator: (i) Dilute Hydrochloric Acid (ii) Dilute NaOH solution (iii) Dilute Ethanoic Acid solution (iv) Lemon juice (v) Water (vi) Dilute Hydrogen Carbonate solution Preparing a temporary mount of a leaf peel to show stomata
	Chemistry	Assessment of practical skills in science – CBSE publication	2. Chemical reactions and Equations	
	Biology	Laboratory manual science-NCERT publication Exemplar problems-NCERT publication	3. Life Processes	

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SCIENCE**

Month	Subject	Book Name	Chapter Name	Activity/Practical
May	Physics	Science Ncert Textbook	1. Refraction of Light	Assignments Numerical Questions Practise
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication	2. Chemical Reactions and Equations	
	Biology	Laboratory Manual Science- Ncert Publication Exemplar Problems – Ncert Publication	3. Life Processes	
Periodic Test - I				
July	Physics	Science Ncert Textbook	1. Refraction of light	Determination of the focal length of Convex lens by obtaining the image of a distant object. Tracing the path of a ray of light passing through a rectangular glass slab for different angles of incidence.
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication	2. Acid Bases and Salts	
	Biology			

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SCIENCE**

Month	Subject	Book Name	Chapter Name	Activity/Practical
		Laboratory Manual Science- Ncert Publication Exemplar Problems – Ncert Publication	3. Control and Coordination	Measure the angle of incidence, angle of refraction, angle of emergence and interpret the result Studying the properties of acids and bases (HCl & NaOH) on the basis of their reaction with: a) Litmus solution (Blue/Red) b) Zinc metal c) Solid sodium carbonate Study of the following properties of acetic acid (Ethanoic acid): i) Odour ii) solubility in water iii) effect on litmus iv) reaction with Sodium Hydrogen Carbonate Assignment work

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Month	Subject	Book Name	Chapter Name	Activity/Practical
August	Physics	Science Ncert Textbook	1. Human Eye and Colorful World	Tracing the path of the rays of light through a glass prism.
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication	2. Control and Coordination	Performing and observing the following reactions and classifying them into:
	Biology	Laboratory Manual Science- Ncert Publication Exemplar Problems – Ncert Publication	3. Metals and Non-metals	A. Combination reaction B. Decomposition reaction C. Displacement reaction D. Double displacement reaction i. Action of water on quicklime ii. Action of heat on ferrous sulphate crystals iii. Iron nails kept in copper sulphate solution iv. Reaction between sodium sulphate and barium chloride solutions Experimentally show that carbon

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				dioxide is given out during respiration.
Periodic Test - II				
September			Revision	
Half Yearly Examination				
October	Physics	Science Ncert Textbook	1. Electricity	Studying the dependence of potential difference (V) across a resistor on the current (I) passing through it and determine its resistance. Also plotting a graph between V and I. Studying (a) binary fission in Amoeba, and (b) budding in yeast and Hydra with the help of prepared slides. Observing the action of Zn, Fe, Cu and Al metals on the following salt solutions:
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication	2. Metals and Non-metals	
	Biology	Laboratory Manual Science- Ncert Publication Exemplar Problems – Ncert Publication	3. Reproduction	

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Month	Subject	Book Name	Chapter Name	Activity/Practical
				i) $ZnSO_4(aq)$ ii) $FeSO_4(aq)$ iii) $CuSO_4(aq)$ iv) $Al_2(SO_4)_3(aq)$ Arranging Zn, Fe, Cu and Al (metals) in the decreasing order of reactivity based on the above result Assignment Work
November	Physics	Science Ncert Textbook	1. Magnetic Effects of Electric Current	Determination of the equivalent resistance of two resistors when connected in series and parallel.
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication	2. Carbon and its Compounds	Study of the comparative cleaning capacity of a sample of soap in soft and hard water
	Biology	Laboratory Manual Science- Ncert Publication	3. Heredity	Identification of the different parts of an embryo of a dicot seed (Pea, gram or red kidney bean).

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Month	Subject	Book Name	Chapter Name	Activity/Practical
		Exemplar Problems – Ncert Publication		
Periodic Test - III				
December	Physics	Science Ncert Textbook	1. Magnetic Effects of Electric Current	Project on management of natural resources Assignment work
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication	2. Carbon and its Compounds	
	Biology	Laboratory Manual Science- Ncert Publication	3. Our Environment	
		Exemplar Problems – Ncert Publication		

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SCIENCE

Month	Subject	Book Name	Chapter Name	Activity/Practical
Preparation Pre-Board				
January	Physics	Science Ncert Textbook	REVISION PROJECTWORK	CBSE BOARD PRACTICAL EXAMINATION
	Chemistry	Assessment Of Practical Skills In Science – Cbse Publication		
	Biology	Laboratory Manual Science- Ncert Publication Exemplar Problems – Ncert Publication		
February Pre-Board				

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Hindi

Month	Book Name	Chapter Name	Activity
April	क्षितिज	पाठ 1. उधौ तुम हो अति बड़भागी (सूरदास)	समस्याओं का समाधान क्रिया कलाप
	काव्यखंड गद्य खंड व्याकरण	पाठ 10. नेता जी का चश्मा पाठ 1. अपठित काव्यांश व गद्यांश पाठ 2. रचना के आधार पर वाक्य भेद	
May	क्षितिज	पाठ 2. राम-लक्ष्मण परशुराम संवाद (तुलसी दास)	पेन पेपर टैस्ट
	काव्यखंड गद्य खंड कृतिका व्याकरण	पाठ 11. बाल गोविन भगत् (रामवृक्ष वेनीपुरी) पाठ 1. माता का अंचल (शिवपूजन-सहाय) पाठ 3. वाच्य पाठ 4. पद परिचय	
Periodic Test - 1			
July	क्षितिज	पाठ 4. आत्मकथ्य	वाद-विवाद

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HINDI**

Month	Book Name	Chapter Name	Activity
	काव्यखंड गद्य खंड कृतिका व्याकरण	पाठ 12. लखनवी अंदाज (यशपाल) पाठ 4. साना हाथ जोड़ि (मधुकंकरिया) पाठ 5. संदेश लेखन पाठ 6. विज्ञापन लेखन पाठ 7. पत्र लेखन, सूचना लेखन तथा ई-मेल लेखन	क्रिया कलाप कक्षा परीक्षण
August	क्षितिज काव्यखंड गद्य खंड कृतिका व्याकरण	पाठ 14. एक कहानी यह भी (मनुभंडारी) पाठ 5 'उत्साह' पाठ 6 अट नहीं रही है (सूर्यकांत त्रिपाठी निराला) पाठ 8 अलंकार पाठ 9 अनुच्छेद लेखन पाठ 10 स्ववृत्त लेखन	परियोजना कार्यक्रम
Periodic Test - 2			

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Hindi**

Month	Book Name	Chapter Name	Activity
September			
Half Yearly Examination			
October	क्षितिज काव्यखंड गद्य खंड व्याकरण	पाठ 16 इस नौबत खाने में इबादत (यतीन्द्र मिश्र) पाठ 6 यह दंतुरित मुस्कान पाठ 7 फसल (नार्गाजुन) रचना के आधार पर वाक्य भेद (पुनः अभ्यास) पाठ 9 संगतकार (मंगलेशडबराल)	आशुभाषण संवाद कौशल अभ्यास कक्षा में
November	क्षितिज काव्यखंड गद्य खंड कृतिका, व्याकरण	17 संस्कृति (भदंत आनंद कौत्सायन) पाठ 5 मैं क्यों लिखता हूँ अलंकार, विज्ञापन लेखन पुनः अभ्यास	रोलप्ले
Periodic Test - 3			
December			
Pre-Board - I Preparation			
January			
Pre-Board - II Preparation			

**Syllabus for Class X Session 2023-24
SOCIAL SCIENCE**

Month	Book Name	Chapter Name	Activity
April	History Geography	Ch-1 The Rise of Nationalism in Europe Ch-1 Resources and Development	Map Work, Concept Map,
May	Civics Geography Economics	Ch-1: Power Sharing Ch-2: Forest and Wildlife Ch-1: Development	Flow Chart Map Work , Pictures of types of agriculture
Periodic Test - I			
July	Civics History Geography Economics	Ch-2: Federalism Ch-2: Nationalism in India Ch-3: Water Resources Ch-2 :Sectors of the Indian Economy Ch-3: Money and Credit	Given Work Assignment
August	Geography History Civics	Ch-4 Agriculture Ch-3: The making of Global World (Topic for Board exams-Pre modern World to Conquest, Disease and Trade Rest topics for inter disciplinary Projects only) Ch-4: Gender, Religion and Caste	Mind Map , PPT for Industrial Hubs In India
Periodic Test - II			

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SOCIAL SCIENCE**

Month	Book Name	Chapter Name	Activity
September	Geography	Ch-5: Minerals and Energy Resources	Concept Map Draw a chart on topic Resources, Map Work
First Term Examination			
October	Geography Civics Economics History	Ch-5: Minerals and Energy Resources Ch -7 Lifelines of Indian economy (Board exams- Roadways to Railways only, rest topic for inter disciplinary Project only) Ch-6: Political Parties Ch-7: Outcomes of Democracy Ch- 4: Globalization and the Indian Economy Ch-4: The age of Industrialisation (To be assessed in PT's only)	Given Work Assignment
November	Geography Civics Economics	Ch-5: Print Culture and the Modern World Ch-6: Manufacturing Industries Ch-5: (Consumer Right) Only for Project work.	Map Work Given Work Assignment Project File
December	Periodic Test - III		
January	Preparation for Pre-Board		
February	Pre-Board		

**Syllabus for Class X Session 2023-24
PHYSICAL AND HEALTH EDUCATION**

Periodic Assessment-I	Term-I	Periodic Assessment-II	Term-II
Strand 1 Games/Sports 3.1 Athletics/Swimming Activity 1-7	Strand 1 Games/Sports 3.1 Athletics/Swimming Activity 1-7 3.2 Team Game Activity 8-24 3.3 Individual Games Activity 25-29 3.4 Adventure Sports Activity 30-31	Strand 2 Health And Fitness Activity 32-34	Strand 2 Health And Fitness Activity 32-34 Strand 3 Sewa Guidelines, Forms and assessments Project 1-17 Strand 4 Health and Activity Card

**Syllabus for Class X Session 2023-24
MATHEMATICS**

Month	Book Name	Chapter Topics	Lab Manual Activity
April	NCERT R.S. Agrawal	CHAPTER – 1 REAL NUMBER Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of $\sqrt{2}$ $\sqrt{3}$ $\sqrt{5}$ CHAPTER - 2 POLYNOMIALS Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.	To find the hcf of two numbers experimentally based on euclid division lemma. To draw the graph of a quadratic polynomial and observe: (i) the shape of the curve when the coefficient of x^2 is positive. (ii) the shape of the curve when the coefficient of x^2 is negative. (iii) its number of zeroes.

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MATHEMATICS

Month	Book Name	Chapter Topics	Lab Manual Activity
May	NCERT R.S. Agrawal	<p>CHAPTER – 3 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 number of solutions. Solution of a pair of linear equations in two variables algebraically - by substitution, by elimination. Simple situational problems.</p> <p>CHAPTER - 8 INTRODUCTION TO TRIGONOMETRY Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); motivate the ratios whichever are defined at 0° and 90°. Values of the trigonometric ratios of 30°, 45° and 60°. Relationships between the ratios. TRIGONOMETRIC IDENTITIES Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$. Only simple identities to be given.</p>	<p>To verify the conditions of consistency/ inconsistency for a pair of linear equations in two variables by graphical method.</p> <p>Activity based on values of the trigonometric ratios of 30°, 45° and 60°</p>

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MATHEMATICS

Month	Book Name	Chapter Topics	Lab Manual Activity
Periodic Test - 1			
July	NCERT R.S. Agrawal	<p>CHAPTER - 4 QUADRATIC EQUATIONS Standard form of a quadratic equation $ax^2 + bx + c = 0$, ($a \neq 0$). Solutions of quadratic equations (only real roots) by factorization, and by using quadratic formula. Relationship between discriminant and nature of roots. Situational problems based on quadratic equations related to day to day activities to be incorporated.</p> <p>CHAPTER - 5 ARITHMETIC PROGRESSIONS Motivation for studying Arithmetic Progression Derivation of the nth term and sum of the first n terms of A.P. and their application in solving daily life problems.</p>	<p>To obtain the solution of a quadratic formula</p> <p>To identify arithmetic progressions in some given lists of numbers (patterns).</p>

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MATHEMATICS**

Month	Book Name	Chapter Topics	Lab Manual Activity
August	NCERT R.S. Agrawal	<p>CHAPTER – 6 TRIANGLES</p> <p>Definitions, examples, counter examples of similar triangles.</p> <p>1. (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.</p> <p>2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.</p> <p>3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.</p> <p>4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar.</p>	To establish the criteria for similarity of two triangles.

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MATHEMATICS**

Month	Book Name	Chapter Topics	Lab Manual Activity
		<p>5. (Motivate) If one angle of a triangle is equal to one angle of another triangle and the sides including these angles are proportional, the two triangles are similar.</p> <p>CHAPTER – 7 Coordinate Geometry</p> <p>Review: Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).</p>	To verify the distance formula by graphical method
Periodic Test -2			
September	NCERT R.S. Agrawal	<p>CHAPTER – 15 PROBABILITY</p> <p>Classical definition of probability. Simple problems on finding the probability of an event.</p>	Activity based on finding probability of event.
Half Yearly Examination			
October	NCERT R.S. Agrawal	<p>CHAPTER – 10 CIRCLES</p> <p>Tangent to a circle at, point of contact</p>	To verify experimentally that the tangent at any point to a circle is perpendicular to the

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MATHEMATICS**

Month	Book Name	Chapter Topics	Lab Manual Activity
		1. (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact. 2. (Prove) The lengths of tangents drawn from an external point to a circle are equal. CHAPTER – 11 CONSTRUCTIONS 1. Division of a line segment in a given ratio (internally). 2. Tangents to a circle from a point outside it.	radius through that point. Activity based on division of a line segment
November	NCERT R.S. Agrawal	CHAPTER – 9 SOME APPLICATIONS OF TRIGONOMETRY: Angle of elevation, Angle of Depression. Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30° , 45° , and 60° .	To find the height of a building using a clinometer.

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MATHEMATICS**

Month	Book Name	Chapter Topics	Lab Manual Activity
		CHAPTER - 12 AREAS RELATED TO CIRCLES Area of sectors and segments of a circle. Problems based on areas and perimeter / circumference of the above said plane figures. (In calculating area of segment of a circle, problems should be restricted to central angle of 60° , 90° and 120° only.	To obtain formula for area of a circle experimentally.
Periodic Test - 3			
December	NCERT R.S. Agrawal	CHAPTER – 13 SURFACE AREAS AND VOLUMES Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones. CHAPTER – 14 STATISTICS	Activity based on finding surface areas and volumes of combinations of two figures Activity based on finding probability distribution,

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MATHEMATICS**

Month	Book Name	Chapter Topics	Lab Manual Activity
		Mean, Median and Mode of grouped data (Bimodal situation to be avoided).	
Practice of All Previous			
January	NCERT R.S. Agrawal	Revision of all previous chapters	
February	Pre-Board		

**Syllabus for Class X Session 2022-23
INFORMATION TECHNOLOGY**

Month	Unit Name	Practical
April	UNIT No.1A : Communication Skills UNIT No.2A : Self- Management Skills-II	1) Digital Documentation (Advanced) 2) Electronic Spreadsheet (Advanced)
May	UNIT No.1B : Digital Documentation (Advanced)	
Periodic Assessment – I		
July	UNIT No. 3A : ICT Skills-II	1) Desktop operations(pinning program, automatically hide the taskbar) 2) Create email account and send mail.
August	UNIT No.4A : Entrepreneurial Skills-II UNIT No.5A : Green Skills-II	1) Search and write about any five successful entrepreneurs.
September	Half Yearly Examination	
October	UNIT No.2B : Electronic Spreadsheet (Advanced)	1) Write a paragraph and format in word
November	UNIT No.3B : Database Management System UNIT No.4B : Web Applications and Security	1) Create your Bio- Data it should have your name, address, email address, DOB, nationality, Language known etc.
December	Periodic Assessment – I	
January	Revision	1) Prepare a PPT on "my future". (use maximum features of PowerPoint)
February	Pre-Board	