



SYLLABUS 2024-25

CLASS X

ENGLISH

Text Book :- 1. First Flight (F.F)

2. Footprint Without Feet (FP.W.F)

3. Grammar - Wren & Martin

MO NTH	W .D	BOOK	UNIT / CHAP	ACTIVITIES /N.E.P	Learning outcomes
APR IL	23	FF FPWF Gramma r	1.A Letter to God 2. Dust of Snow(P) 3. Fire & Ice(P) 4. Nelson Mandela : Long Walk to Freedom 1. A Triumph Of Surgery 1. Modals	Anecdote- faith in God Letter Based on situation	Students will learn the value of Truth Compassion Love
MA Y	15	FF	Two stories about flying 1.His First fly 2. Black Aeroplane	GD on Lesson Based story	Honesty
JUN E	18	FF FPWF Gramma r	1.A Tiger in the Zoo(P) 2. How to tell the wild animals(P) 3. The Thief's Story 1. Subject – Verb Agreement	Eradication of inhibitions of fear	Students will learn the value of Love And Care
JUL Y	25	FF FPWF Gramma r Writings	1.The Ball Poem(P) 2.From The Diary Of Anne Frank 3. Fog The Midnight Visitor Tenses Determiners 1. to the editor 2. Reading comprehension	Impact Of War	Students will learn the value of Kindness Peace

AUG	23	FF Writings	1 Glimpses of india Letter of complaint (official) Letter of complaint(Business)	Science Boon or Ban	Students will learn the value of Respect	
SEP T	23		Term 1 Exam			
OCT	19	FF FPWF	1. Mijbi the otter 2. Amanda!(P) 3. The Trees(P) 1. A question of trust 2. Footprints without feet	GD Diverse India Unity	Students will learn the value of Courage Integrity	
NOV	20	FF FPWF Writings	1. Madam Rides the Bus 2. Fog (P) 3. The Tale Of Custard the Dragon (P) 3. The Sermon At Benaras 1. The Making of Scientist 2. The Necklace Paragraph writing	Analytical Paragraph based on outlines / chart/ maps/ report etc.	Students will learn the value of Respect	
DEC	22	FF FPWF Grammar	1. The Proposal (play) 2. For Anne Gregory(P) 1. Bholi 2. The book that saved the earth Reported speech	Revision of format for Term 2	Students will learn the value of trustworthiness	
JAN	20		Revision for pre-board Mock- test			
FEB	22		Revision for pre-board Mock- test			
MA RCH	23		Annual Term- 2			

Architect of Mankind

हिन्दी

PRESCRIBED BOOK: क्षितिज भाग-2 , कृतिका भाग-2 , हिन्दी व्याकरण (Together with)

MONTH	WORKING DAY	CHAPTER NAME	ACTIVITY/ N.E.P	Learning outcomes
APRIL	23	क्षितिज -पद्य भाग - सूरदास के पद , गद्य भाग - नेताजी का चश्मा , व्याकरण - पद परिचय	सुभाष चंद्र बोस जी की जीवनी लिखें।	देश प्रेम का ज्ञान
MAY	15	क्षितिज - गद्य भाग -बालगोबिन भगत पद्य खंड - राम- लक्ष्मण -परशुराम संवाद व्याकरण - पत्र लेखन	सामाजिक झंडियों पर एक कोलॉर्ज तैयार करें।	बाल गोविंद भगत द्वारा सामाजिक मान्यताओं का विशेष
JUNE	18	क्षितिज - पद्य भाग - राम लक्ष्मण परशुराम संवाद , गद्य भाग - लखनावी अंदाज कृतिका - माता का अंचल	अयोध्या कांड का वित्र वर्णन करें।	राम लक्ष्मण और परशुराम के चरित्र का ज्ञान
JULY	25	क्षितिज - पद्य भाग - उत्साह, अट नर्हीं रही, यह दंतुरित मुसकान ,फसल व्याकरण -वाच्य , रचना के आधार पर वाच्य भेद , निबंध , विज्ञापन लेखन	अपने बचपन की तस्वीर विपका कर बालपन की बदमाशियों के बारे में दस वाच्य लिखें।	बाल तीता का ज्ञान
AUGUST	23	क्षितिज - गद्य खंड -एक कठानी यह भी , नौबतखाने में इबादत कृतिका- मैं वर्षों लिखता हूं व्याकरण – अलंकार	फादर कामिल बुल्के की जीवनी लिखें।	फादर कामिल बुल्के द्वारा किए गए सराहनीय कार्य का ज्ञान
SEPTEMBER	23	पुनरावृति एवं अर्धवार्षिक परीक्षा , प्र्यन पत्र समालोचना , अपठित गद्यांश , कृतिका – साना – साना छाथ जोड़ि पाठ आरंभ क्षितिज - आत्मकथ्य	दार्जिलिंग के प्राकृतिक परिवेश का वर्णन करें।	दार्जिलिंग के पर्यटन स्थलों की जानकारी
OCTOBER	19	कृतिका – साना-साना छाथ जोड़ि पाठ समाप्त , क्षितिज - , गद्य भाग -संस्कृत व्याकरण - विज्ञापन लेखन एवं पद परिचय	समाज में स्त्रियों की स्थिति पर एक व्यौरा तैयार करें।	सामाजिक झंडियों की जानकारी
NOVEMBER	20	क्षितिज गद्य भाग - संगतकार , नौबत खाने में इबादत व्याकरण – संदेश लेखन	किरी फिल्म की समीक्षा प्रस्तुत करें।	संगीत की बारीकियों का ज्ञान
DECEMBER	22	पुनरावृति एवं mock test 1		

JANUARY	20	पुनरावृति एवं mock test 2		
FEBRUARY	22	Board Exam Started		

SANSKRIT

Month	No of working day	Topic	Activities/ Nep	LEARNING OUTCOME
APRIL	23+15	प्रथमः पाठः-शुचिपर्यावरणम् (केवलं पठनार्थम्)पदपरिचयः- सन्धिः,समासाः,प्रत्ययाः,वाच्यपरिवर्तनम्,धातुरुपा णि(लट्,लोट्,लङ्गलकारः,विधिलिङ्गलकारः),कारक उपपद विफक्ति प्रयोगाः,प्रत्ययाः,संख्यायाः,उपसर्गाः) • विषयः-सन्धिः • पुनरावर्तन-कार्य • कक्षा-परीक्षा	शब्दानां प्रकृतिः तेषां निर्माणं महत्वक्य ज्ञात्वा वाक्येषु तेषां सम्यक्तया प्रयोगम् करणम्।	पर्यावरनस्य शुद्धता महत्वा शुद्धाशुद्ध-शब्दानां ज्ञानं तेषां विद्विकरणां संशोधनं च ज्ञात्वा भाषायां प्रातिष्यं प्राप्तुं प्रयासां करणम्।
MAY		*विषयः-समासाः उपविषयाः-तत्पुरुषःठन्डश्व पुनरावर्तन-कार्य कक्षा -परीक्षा	उत्तरपदप्रधानम् सर्वपदप्रधानम् वा पदानाम् संयोजनम् वियोजनम् वा	पूर्वं अथवा उत्तरपदयोः किं पदं प्रधानम् अथवा अप्रधानम् भवति। *सर्वेषां(द्वयोःत्रयाणां चतुर्णां वा)पदानां कदा संयोजनं भवति।
JUNE	18	द्वितीयःपाठः-बुद्धिबलवती सदा *विषयः-प्रत्ययाः(कृदन्ताः) पुनरावर्तन-कार्य कक्षा -परीक्षा	धातुभिः क्रिया,क्रियाविशेषणवि शेषणानां वा निर्माणम् कृत्वा तेषां भाषायाम् उपयोगं करणम्।	बौद्धिक बल और वातपटुता से जीवन को सफल बनाना। • मूल धातुभ्यः क्रियायाः निर्माणम्।
		तृतीयः पाठः-व्यायामः सर्वदा पश्यः *विषयः-अपठित-अवबोधनं		व्यायाम से भोजन के सुपाच्य व शारीरिक सौष्ठव का प्रतिपाथन करना।
JULY	25	*विषयः-प्रत्ययाः(तद्वित एवं स्त्रीप्रत्ययाः) पुनरावर्तन-कार्य कक्षा-परीक्षा	शब्दैः धातुभिः सह कथं संज्ञा,विशेषणम् पुतिंगांत् स्त्रीलिङ्गस्या चा निर्माणं कथं भवेत् इत्यस्य ज्ञानम् करणम्।	मूलशब्दैःविशेषणस्य निर्माणं करणम्।

AUG	23	चतुर्थः पाठः-शिशुलालनम् पुनरावर्तन-कार्य कक्षा-परीक्षा *विषयः-रचनात्मक-कार्य पत्रलेखनम्	दैनिक वाक्वहरे संरकृतस्य प्रयोगाय योग्यता भवेत्	श्रीराम जी के जीवन के द्वारा माता-पिता का महत्व बताना।
		पंचमः पाठः-जननी तुल्यवत्सला	गद्यांशाधारिता: प्रङ्गोत्तराणि कुरुता	माँ की ममता का महत्व समझाना।
SEP	23	*विषयः-वाक्येषु अव्ययप्रयोगः पुनरावर्तन-कार्य कक्षा-परीक्षा अर्धवार्षिक-परीक्षा	“यस्य न व्ययः इति अव्ययः”अर्थात् यत् पदं केषुविद् वरनेषु विभक्तिषु तिङ्गेषु वा न परिवर्तते सः अव्ययः कश्यतो तेषां वाक्येषु कथंप्रयोगो भवति इत्यस्य ज्ञानम् अनेन प्रकारणेन जायते।ओ	अव्ययानां सार्थकताम् उपयोगितां वा कथनम् अव्ययानां महत्वं प्रदर्श्य भाषायां संयोजनं प्रदर्शनम्।
OCT	19	षष्ठमः पाठः-सुभाषितानि पुनरावर्तन-कार्यम् कक्षा-परीक्षा	सरवरणाय सरवरग्नानाय च	संस्कृत के विभिन्न कवियों के माध्यम से मानव-जीवन का महत्व समझाना।
		सप्तमः पाठः-सौहार्दं प्रकृतोःशोभा पुनरावर्तन -कार्यम् कक्षा-परीक्षा • विषयः-उपपदविभक्तिः प्रत्ययाश्च • उपविषयः-वाक्यरांशोधनम् शब्दशुद्धिः च	वाक्यानां संशोधनम् प्रत्ययान्तःशब्दानां च निर्माणम्।	प्रकृति की उपयोगिता एवं सुंदरता का वर्णन करना। *विभिन्न विशेष शब्दैः सह कविभक्तिः प्रयुज्यते तर्याः च किं महत्वम् कश्य प्रयोगः इत्यस्य ज्ञानम् करणम्।
NOV	20	• विषयः-वाक्य • पुनरावर्तन-कार्य • कक्षा-परीक्षा	वाक्यानां निर्माणविधा एव वाक्यं भवति तस्य परिवर्तनं कृत्वा वाक्यप्रयोगविधिः एव वाक्यपरिवर्तनं भवति।अस्मिन् पाठे तस्याः विधायाः एव विवेचनं क्रियतो	भाषायाः प्रयोगे सरलता व्यवहारिकता च भवेत्।
		अपठित-अवबोधनम् गद्यांशाधारिता:प्रङ्गोत्तराणि औपचारिक अथवा अनौपचारिक पत्रम्	गद्यांशाधारिता:प्रङ्गोत्तराणि	छात्राणां रुचिं संस्कृतं प्रति वर्धनम्

		वित्तवर्णनम् अथवा अनुच्छेदलेखनम् सरलवाक्यानां संस्कृतभाष्याम् अनुवादः *विषयः-समयः	समय ज्ञानम् जीवनस्य अनिवार्यम् अङ्गं वर्तते अतः समय ज्ञानम् अतीव महतं धारयति जनानां दिनचर्या समये एव आधारिता वर्तते	समयलेखनम् समयस्य महतं प्रतिपादयति
DEC	22	आष्टमः पाठः- विचित्रः साक्षी		उचित न्याय के महत्व को समझाना।
JAN	20	नवमः पाठः-सूक्तयाः		जीवन में उत्तम् आचरण को अपनाने की शिक्षा देना।
FEB	22	*विषयः-शब्दरूपाणाम् ज्ञानम् उपविषयः -शब्द शुद्धिः क्रियाशुद्धिदृश्य	तिंग-विभक्ति-वचनानां ज्ञानम्	छात्राणां योज्यता शब्द-धातु रूपैः सह वाक्यनिर्माणे भवेत्

MATHEMATICS

Mathematics – Textbook for Class X – NCERT Publication
REFERENCE BOOK-R.S. AGGARWAL. EXAM IDEA.SAMPLE PAPER.

MONTHS	W.D	TOPIC	LEARNING OUTCOMES	ACTIVITY/ N.E.P
APR	23	Chapter: 2 POLYNOMIALS Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials.	The students should learn to find the zeroes of a given polynomial graphically and algebraically To understand the relationship between zeroes and coefficients of a polynomial	Their first task is to create a story problem that would be represented using a polynomial. Step and find the difference between variables and constant terms.
	A	Chapter: 1 REAL NUMBER Fundamental Theorem of Arithmetic – statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of the irrationality of $\sqrt{2}$, $\sqrt{3}$, $\sqrt{5}$, etc	The students should learn to understand and apply the H.C.F. & L.C.M. Algorithm/lemma in real-life situations.	Define real numbers and discuss the different types of real numbers and compare them with other numbers.

			<ul style="list-style-type: none"> • To find the zeroes of a given polynomial graphically and algebraically • To understand the relationship between zeroes and coefficients of a polynomial. 	
MAY	15	<p>TRIGONOMETRY</p> <p>INTRODUCTION TO TRIGONOMETRY</p> <p>Trigonometric ratios of an acute angle of a right-angled triangle. Proof of their existence (well defined); whichever are defined at 0° and 90°. Values of the trigonometric ratios of 30°, 45°, and 60°. Relationships between the ratios.</p> <p>TRIGONOMETRIC IDENTITIES</p> <p>Proof and applications of the identity $\sin^2 A + \cos^2 A = 1$</p>	<p>The students will learn the Right triangle and find the value of Values of the trigonometric ratios of 30°, 45°, and 60°. Relationships between the ratios. And proof of the identity.</p> <p>Determines all trigonometric ratios with respect to a given acute angle (of a right triangle) and uses them in solving problems in daily life contexts like finding heights of different structures or distance from them</p>	<p>Teachers should explain the importance of trigonometry in our daily life. Trigonometry can be used on the house, to make the room inclined and the height of the roof in the building.</p>
		<p>Chapter 3: Pair of Linear Equations in Two Variables</p> <p>Pair of linear equations in two variables and graphical method of their solution,</p>	<p>The student will be able to</p> <p>Solve the pair of linear equations by a different method</p> <p>Apply the concept of solving linear</p>	<p>To verify the condition of consistency for a pair of linear equations in the 2 variables graphical method.</p>

		<p>consistency/inconsistency.</p> <p>Algebraic conditions for a number of solutions. Solution of a pair of linear equations in two variables algebraically – by substitution, by elimination. Simple situational problems.</p>	<p>equations to solve word problems.</p>	
JUNE	18	<p>Chapter 15: Probability</p> <p>The classical definition of probability. Simple problems on finding the probability of an event</p>	<p>The students learn to solve to find different types of probability</p>	<p>Discuss and analyze the chance of happening different events through simple activities like tossing a coin, throwing two dices simultaneously, picking up a card from a deck of 52 playing cards, etc</p>
		<p>Chapter 6: Triangles</p> <p>Definitions, examples, and counterexamples of similar triangles.</p> <p>(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 If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side.</p> <p>3 If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar.</p>	<p>The student will be able to recall similar figures and identify them.</p> <p>Recognize various rules to show two triangles similar</p> <p>Use Pythagoras theorem and its converse in different situations</p> <p>Find solutions to a right triangle and use them to solve practical problems based on it.</p>	<p>Cut an acute-angled triangle say ABC from coloured paper.</p> <p>Paste the ABC on ruled sheets such that the base of the triangle coincides with the ruled line.</p> <p>Mark two points P and Q on AB such that $PQ \parallel BC$</p> <p>Using a ruler measure the length of AP PB AQ and QC.</p> <p>Repeat the same for the right-angled triangle and obtuse-angled triangle.</p> <p>In each set of triangles, we verified that $AP/PB = AQ/QC$</p>

JULY	25	<p>UNIT III: COORDINATE GEOMETRY</p> <p>Coordinate Geometry Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division).</p> <p>Chapter 4: Quadratic Equations</p> <p>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 the quadratic formula. Relationship between discriminant and nature of roots.</p> <p>Situational problems based on quadratic equations related to day-to-day activities to be incorporated.</p>	<p>The student will be able to</p> <p>Familiarize themselves with the coordinate plane</p> <p>Find the distance between two points.</p> <p>Use concept of distance formula, section formula in day-to-day life situations</p> <p>The student will be able to</p> <p>use quadratic equations to solve real-life problems through different strategies, such as making a perfect square, quadratic formula, etc.</p>	<p>Plot the graph and explain the coordinate of the various point.</p> <p>Solving equations on the graph paper by actually plotting and assigning values to the unknown variable is a fun way to help the child understand the relevance of the equation and see a parabola in front of his eyes.</p>
AUG	23	CASE STUDY BASED QUESTIONS	CASE STUDY BASED QUESTIONS	
SEPT	23	REVISION	REVISION	
OCT	19	<p>Chapter 14: Statistics</p> <p>Mean, median, and mode of grouped data (bimodal situation to be avoided).</p>	<p>The students will learn the Interpretation and analysis of given data by using Mean and Mode.</p> <p>The student will be able to:</p>	<p>Collect some electric bills in our surroundings and find the mean, median, and mode of the data.</p>

		<p>To organize, represent & interpret the data by using mean and mode.</p> <p>Make a graphical representation of data such as Ogive and interpret the median from it.</p>	
		<p>CIRCLES</p> <p>Tangent to a circle at, the point of contact</p> <p>1 (Prove) The tangent at any point of a circle is perpendicular to the radius through the point of contact.</p> <p>2(Prove) The lengths of tangents drawn from an external point to a circle are equal.</p>	<p>The students will learn to draw tangents to a circle from a point that lies outside and a point that lies inside the circle. They may be motivated to evolve different ways to verify the properties of such tangents.</p> <p>Cut a circle of any radius from a glazed paper and paste it on white chart paper. Take any point P on the circle. From P, fold the paper in such a way that it just touches the circle at P. Press it and unfold to get a tangent PA. From A, fold the paper to get tangent AQ. Join OP, OA, OQ</p>
NOVE	20	<p>TRIGONOMETRY(CONTUNED)</p> <p>HEIGHTS AND DISTANCES:</p> <p>Angle of elevation, Angle of Depression</p> <p>Simple problems with heights and distances. Problems should not involve more than two right triangles. Angles of elevation/depression should be only 30°, 45°, and 60°.</p>	<p>The students learn how to determine the angle of elevation of an object by determining the height of an object at a known distance</p> <p>TO sea a triangle the vertical from the object makes a right angle with the horizontal so if we know the height of the object and the linear distance, we can easily find out the angle of the trigonometry formula.</p>
		<p>ARITHMETIC PROGRESSIONS</p> <p>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>The student will be able to</p> <p>Understand the concept of sequence/patterns and A.P. as a special sequence.</p> <p>A sequence of numbers in which every term except the first term is obtained by adding a fixed number to its preceding term is</p>

			Use the concept nth term of an A.P. in solving problems.	called an arithmetic progression (AP).
DEC	22	UNIT VI: MENSURATION 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 the area of the segment of a circle, problems should be restricted to the central angle of 60° , 90° , and 120° only)	The student will learn to <ul style="list-style-type: none"> Use the concept of area & perimeter of plane figures in given problems. Find the surface area & volume of a combination of solid figures. Understand the concept of conversion of solids from one form to other. 	To derive a formula for finding the area of a circle Step 1: Draw any circle on a sheet of white paper. Let its radius be r units. Step 2: Draw eight diameters dividing the circle into 16 equal parts. Shade the alternate parts Step 3: Cut these 16 parts of the circle and place them on the other sheet of white paper as. Here, AB = the circumference of the circle
		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.	<ul style="list-style-type: none"> The student will learn to Understand the concept of conversion of solids from one form to other. 	To find the curved surface area and total surface area of a cylinder experimentally. Remove the top and bottom circles of the cylinder. Make a vertical cut on the curved surface and lay the cylinder flat to get a rectangle as shown. Measure the length and breadth of the rectangle so formed.
JAN	20	CASE STUDY PROBLEM	CASE STUDY PROBLEM	

		REVISION	REVISION	
FEB	22	SAMPLE PAPER	SAMPLE PAPER	
MAR	23	EXAM	EXAM	

PHYSICS

Subject : Science & Technology (Physics)

Prescribed Text books: 1. Science Text book for class X – NCERT

Reference books:

Science for Tenth Class – Physics Lakhmir Singh & Manjit Kaur (S. Chand)

Month	W. D.	Content	Activities / N.E.P	Learning Outcomes
April	23	Light – Reflection and Refraction: Reflection of light, plane mirror and spherical mirror, image formation by plane mirror, and spherical mirror, Centre of curvature, principal axis, principal focus, focal length. Mirror formula. Sign convention for reflection by spherical mirror, Mirror formula and Magnification.	To find the focal length of (i) concave mirror (ii) convex lens by obtaining the image of a distant object.	1) Able to understand about reflection and refraction. 2) Able to understand about the mirror and lens 3) Able to draw ray diagram due to different position of object placed in mirror and lens. 4) Able to understand lens formula.
May	15	Refraction of light: Laws of Refraction of light, Refractive index, Refraction of spherical lens, Image formation by lenses, ray diagram, sign convention for spherical lenses. Lens formula & its magnification. Power of a lens. Refraction through glass slab.	i) To show refraction through glass slab using travelling microscope	1) Able to understand about the refractive index and ray diagram
June	18	The Human eye and the colourful word – Functioning of a lens in human eye , defects of vision and their corrections , application of spherical mirrors and lenses	Draw a diagram of ear and labelled them	1) Able to understand about the eye and its defects.

July	25	Refraction of light through a prism, Dispersion of white light by a glass prism, scattering of light, application in daily life (Excluding colour of the sun at sunrise and sunset)	Show the scattering of light rays through a glass prism.	1) Able to understand about the prism and dispersion of light. 2) Able to understand about the scattering of light.
Aug.	23	Revision		
Sept.	23	Half Yearly Examination + Discussion Electricity: Electric current and circuit, Electric potential and potential difference, circuit diagram, Ohm's Law. Resistance, factors on which it depends, resistance of a system of resistances.		
Oct.	19	Electricity (continued) :- Resistors in Series and parallel combination of resistors and its application. Heating effect of electric current, and practical applications of Heating effect of electric current, electric power. Interrelation between P, V, I and R.	To study the dependence of potential difference (V) across a resistor on their current I passing through it & determine its resistance and also plot V – I graph.	1) Able to understand about the charge, potential and current. 2) Able to understand how potential is varying with the change of current. 3) Able to understand about series and parallel connection 4) Able to understand about V-I graph 5) Able to understand about the heating effect.
Nov.	20	Magnetic Effects of Electric Current: Magnetic field, field lines, Magnetic field due to a current carrying conductor, coil, solenoid. Force exerted by a current carrying conductor placed in a Uniform magnetic field, Right hand thumb rule, Fleming's left hand rule, electric motor	Draw field lines due to bar magnet and show function of electric motor.	1) Able to understand about the magnet and magnetic field. 2) Able to understand about the magnetic field due to various shape. 3) Able to understand to find the direction of motion of conductor.
Dec.	22	Revision		
Jan.	20	Mock test		
Feb.	22	Pre Board		
March	23	Board Exam		

CHEMISTRY
Prescribed Book –Science for Class X (NCERT)

Month	W. D.	Content	Activities / N.E.P	Learning Outcomes
April	23	Chemical reactions and equations : Chemical reactions, balanced chemical equations, implications of a balanced chemical equations	1. Burning of magnesium ribbon in presence of air. 2. Reaction of nail with copper sulphate solution. 3. Electrolysis of water. 4. Burning of calcium carbonate	Understanding ways to balance chemical equations.
May	15	Chemical reactions and equations : Types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction.		Understanding different types of chemical reactions.
June	18	Acids, bases and salts: Definition of acids and bases in terms of furnishing of H^+ and OH^- ions. Physical and chemical properties of acids and bases, their examples and uses.	To find the pH of given samples using pH paper / Universal indicator.	Understanding different types of acids and bases around us and their uses.
July	25	Acids, bases and salts: Concept of pH scale. Importance of pH in our everyday life. Preparation and uses of sodium hydroxide, washing soda, baking soda, bleaching powder and plaster of Paris.	. To study the properties of an acid (dil. HCl) by its reaction with a. Litmus solution b. Zinc metal c. Sodium carbonate	Understanding various physical and chemical properties of acids and bases
Aug.	23	Revision		
Sept.	23	Half Yearly Examination + Discussion		
		Metals and non metals: Physical and chemical properties of metals and non – metals, reactivity series, formation and chemical properties of ionic and covalent compounds. Basic	To perform and observe the action of 1.Zinc on dil. HCl. 2. Sodium with water	Understanding different properties of metals and non metals and their ways of extraction.

		metallurgical processes. Corrosion and its prevention.		
Oct.	19	Carbon and its compounds: Covalent bonding in carbon compounds. Versatile nature of carbon. Homologous series. Nomenclature of carbon compounds containing functional groups (halogens, alcohols, aldehydes, ketones, carboxylic acids, alkanes, alkenes and alkynes). Difference between saturated and unsaturated hydrocarbons.	To perform the reaction between sodium sulphate solution and barium chloride solution. To observe the action of Zn, Fe, Cu and Al metals on the following salt solution: $ZnSO_4$, $FeSO_4$, $CuSO_4$, Al_2SO_4 solutions.	Understanding versatile nature of carbon and its bonding.
Nov.	20	Carbon and its compounds: Chemical properties of carbon compounds: combustion, oxidation, substitution and addition reactions. Ethanol and ethanoic acid (only properties and uses). Soaps and detergents.	To study the properties of acetic acid. To study the cleansing action of soaps and detergents in : Distilled water, tap water and brine water..	Understanding nomenclature of different organic compounds and their reactions .
Dec.	22	Revision		
Jan.	20	Mock test		
Feb.	22	Pre Board		
March	23	Board Exam		

BIOLOGY

Prescribed Book –Science for Class X (NCERT)

Subject:- Biology		Class:- X		
Month	No.of Working Days	Topic	Activities / N.E.P	Learning Outcomes
April	23	Chapter 6: Life Processes	To prepare a temporary mount of a leaf peel to show stomata.	❖ identify the different life processes.

		Living Being'. Basic concept of nutrition.		❖ describe the different modes of nutrition.
May	15	Chapter 6: Life Processes Living Being'. Basic concept of respiration.	Experimentally show that Carbondioxide is given out during photosynthesis.	❖ explain respiratory system in human beings.
June	18	Chapter 6: Life Processes Living Being'. Basic concept of transport and excretion in plants and animals.	Diagrammatic Representation of Circulatory and Excretory system in Human beings.	❖ understand the processes of circulatory and excretory system
July	25	Chapter 7: Control and Coordination movements in plants; Introduction of plant hormones; Control and co-ordination in animals: Nervous system [Voluntary, involuntary and reflex action; Chemical co-ordination: animal hormones.]	About Neuron, Reflex action and Brain [Diagrammatic Representation] Response of the plant to the direction of light[Phototropism]	❖ explain nervous system in human beings. ❖ understand the function of hormones in humans and plants. ❖ differentiate between reflex action and other actions. ❖ understand the function of sunlight in plants.
August	23	Chapter 15: Our Environment Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances.	❖ About Food Chain, Food Web[Energy flow] ❖ Find out how the sewage in your locality is treated.	❖ classify different components and their inter-relationship in an ecosystem. ❖ analyse reason for ozone depletion. ❖ interpret management of garbage disposal

September	23	Question Paper Discussion & Assessment-I Interactive discussion on Term -1 question paper.	Term -1 Exam Solve Previous years papers + Other Sample papers	<ul style="list-style-type: none"> ❖ recapitulate different topics. ❖ clarify doubts.
October	19	Chapter 8: How Do Organisms Reproduce [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.]	To study binary fission in Amoeba and budding in yeast. To identify different parts of Dicot seed (Pea, gram or red kidney bean)	<ul style="list-style-type: none"> ❖ now the significance of reproduction in life of all living beings. ❖ Express the modes of reproduction by single organism.
November	20	Chapter 9: Heredity and Evolution Heredity; Mendel's contribution- Laws for inheritance of traits: Sex determination brief introduction.	About Inherited Traits observe the ears of all students in class.	<ul style="list-style-type: none"> ❖ develop concept of heredity. ❖ understand Mendel's crosses and formation of gametes.
December	22	Revision Pre- board Examination	Solve Previous years papers + Other Sample papers	<ul style="list-style-type: none"> ❖ recapitulate different topics ❖ clarify doubts
January	20	Subject Enrichment Activity/Practical + Revision	Solve Previous years papers + Other Sample papers	<ul style="list-style-type: none"> ❖ recall and remember all the concepts. ❖ understand and evaluate the errors and mistakes done in the paper and would be able to improve upon the same through correction.

February	22	Revision Pre- board Examination	Solve Previous years papers + Other Sample papers	<ul style="list-style-type: none"> ❖ revise and reinforce all the concepts already learnt.
March	23	Board Exams		<ul style="list-style-type: none"> ❖ recall and remember all the concepts.

Note: All the projects and assignment will form the part of the assessment.

HISTORY

Month	Working days	Topic	Activity / N.E.P	Learning outcome
April	23	<u>Section 1- Events and Processes</u> <u>Ch 1. The rise of nationalism in Europe</u> <u>The French Revolution and the idea of the Nation</u> <u>The making of Nationalism in Europe</u> <u>The age of Revolutions:1830-1848</u> <u>The making of Germany and Italy</u> <u>Visualizing the Nation</u> <u>Nationalism and imperialism</u>	<p>Find more nationalist symbols in countries outside Europe. For one or two countries, collect examples of pictures, posters or music that are symbols of nationalism.</p> <p>With the help of Box 3 on page no 24, Identify the attributes of Veit's Germania and interpret the symbolic meaning of the painting.</p>	<p>To enable the learners to identify and comprehend the forms in which nationalism developed along with the formation of Nation states in Europe in post-1830 period.</p>
May	15	<u>Ch 2. Nationalism in India</u> <u>The First World War, khilafat and non-cooperation</u> <u>Differing strands within the movement</u>	<p>*Find out about the anti-colonial movement in Kenya. Compare and contrast and make a chart on India's National movement with the ways in which Kenya became independent.</p>	<p>To recognise the nature of the diverse Social movements of the time.</p>
June	18	<u>Towards civil disobedience</u> <u>The sense of collective belonging</u>	<p>On the basis of Fig 12 and 14 on page no 71 and 72 respectively, make a list of your views regarding castes and communities.</p>	<p>Appreciate the ideas promoting Pan Indian belongingness</p>

July	25	<u>Section 2: Livelihoods, Economies and Societies</u> <u>Ch 3. The making of a Global world</u> The Pre-modern world The Nineteenth Century (1815-1914) The Inter war Economy Rebuilding a World Economy: The Post-War Era	<p>Think and accumulate your ideas on the importance of language and popular traditions in the creation of national identity.</p>	<p>Show that globalization has a long history and point to the shifts within the process</p>
Aug	23	<u>Revision work</u>	<u>Annual Exam</u>	
Sep	23	<u>Ch 4. The Age of industrialisation</u> Before the Industrial Revolution Hand Labour and Steam Power Industrialization in the Colonies Factories Come Up The Peculiarities of Industrial Growth Market for Goods	<p>*Find out more about gold and diamond mining in South Africa in the 19th century.</p> <p>*Note down one event or aspect of your own life from adults such as your parents or teachers, about industrialisation</p>	<p>Enable them to understand industrialization in the colonies with reference to Textile</p> <p>Familiarize with the Pro- Industrial phase and Early – factory system.</p> <p>Familiarize with the process of industrialization and its impact on labour class</p>
Oct	19	<u>Section 3: Everyday Life, Culture and Politics:</u> <u>Ch 5. Print Culture and the Modern World:</u> The First Printed Books Print Comes to Europe The Print Revolution and its Impact	<p>Imagine you are a cartoonist in France before the Revolution. Design a cartoon as it would have appeared in a pamphlet.</p>	<p>Identify the link between print culture and the circulation of ideas.</p> <p>Familiarize with pictures, cartoons, extracts from propaganda literature and newspaper debates</p>

		The Reading Mania The Nineteenth Century		on important events and issues in the past.
Nov	20	India and the World of Print Religious Reform and Public Debates New Forms of Publication Print and Censorship	*Find out more about the changes in print technology in the last 100 years. Write about the changes, explaining why they have taken place, what their consequences have been.	Understand that forms of writing ,have a specific history, and that they reflect historical changes within society and shape the forces of change
Dec	22	<u>Revision</u>		
Jan	20	<u>Revision and Mock test</u>		
Feb	22	<u>Revision and Mock Test</u>		
Mar	23	<u>Board examination</u>		

CIVICS

MONTH	WORKING DAY	TOPIC	ACTIVITIES/ N.E.P	LEARNING OUTCOME
April	23	Ch 1- Power Sharing *Meaning and need of power sharing *Srilanka and Belgium *Majoritarianism in Srilanka	Comparing the ethnic composition of both the country.	Familiarize with the centrality of power sharing in a democracy. Understand the working of spatial and social mechanism
May	15	Contd - Accomodation in Belgium Why power sharing is desirable ? *Forms of powersharing	Explain forms of power sharing arrangements through picture.	Centrality of power sharing in a democracy.

June	18	Ch-2 - Federalism *What is federalism *What make India a federal country *Indo – US federation – A comparative study	Understanding the federalism in context with your school make a note on it.	Analyze federal provisions and Institutions. Explain decentralization in rural and urban areas.
July	25	Contd. *How is Federalism practised? *Decentralisation in India	On map show the country having Federalism.	Analyse examples of federalism
August	23	Ch- 3 : Gender ,Religion and Caste *Gender and politics, public/private divisions, women political representation. * Religion, Communalism and Politics – Communalism, Secular State(excluding image on page 46, 48, 49 of NCERT Textbook – Democratic Politics –II reprinted edition 2021)	Conduct a small survey in your locality and make a file work on it regarding the topic :- <ul style="list-style-type: none"> • Is gender discrimination still prevailing • How caste affect the society • Does democratic government has given the equal rights to every gender etc. 	Identify and analyze the Challenges posed by communalism to Indian democracy. Recognize the enabling and disabling effects of caste and ethnicity in politics. Develop a gender perspective on politics.
September	23	*Caste politics- caste inequalities, Caste in politics ,politics in caste Ch 4- Political Parties *National Political Parties *State Parties *Challenges of Political Parties	Paste the pictures of symbols of different political parties.	Party systems in democracies. Introduction to major political parties, challenges faced by them.
October	19	*How can parties be formed ?		Evaluate the functioning of

		<p>Ch 5- Outcomes of Democracy</p> <ul style="list-style-type: none"> *How do we assess democracy's outcomes? *Accountable, responsive and legitimate government *Economic growth and development 		<p>Democracies in comparison to Alternative forms of governments.</p> <p>Understand the causes for Continuation of democracy in India.</p> <p>Distinguish between sources of Strengths and weaknesses of</p>
November	20	<p>Contd.</p> <ul style="list-style-type: none"> *Reduction of inequality and poverty *Accommodation of social diversity *Dignity and freedom of the citizens 	<p>List the religious reforms and public debates which took place as a result of the development in print media.</p>	<p>pictures, cartoons, extracts from propaganda literature and newspaper debates on important issues.</p>
December	22	REVISION AND MOCK 1	-----	-----
January	20	MOCK 2 AND PRE-BOARD 1	-----	-----
February	22	REVISION AND PRE-BOARD	-----	-----
March	23	Annual exam		

ECONOMICS

MONTH	WORKING DAYS	CHAPTERS	TOPICS	ACTIVITIES/N.E.P
APRIL	23	DEVELOPMENT	<ul style="list-style-type: none"> What development promises • Different people different developmental goals • Income and other goals • How to compare different countries 	<p>Students will analyse their own development goals along with their family members. Then make classification among them as contrasting and conflicting goals.</p> <p>Inclusive Teaching- Geography and Biology</p>

			<p>or states • Income and other criteria</p> <ul style="list-style-type: none"> • Public facilities • Sustainable development 	
MAY	15	SECTORS OF INDIAN ECONOMY	<ul style="list-style-type: none"> • Division of sectors on the basis of nature of work • Comparison among three sectors <p>Preparation of a chart showing classification of various activities into three sectors i.e. Primary, secondary and tertiary sector.</p>	<ul style="list-style-type: none"> • Division of sectors on the basis of nature of work • Comparison among three sectors <p>Preparation of a chart showing classification of various activities into three sectors i.e. Primary, secondary and tertiary sector.</p>
JUNE	18	SECTORS OF INDIAN ECONOMY	<p>Primary, secondary and tertiary sector in India</p> <ul style="list-style-type: none"> • Division of sector as organized and unorganized sector • Private and Public sector 	<p>Students will be asked to identify the different aspects required for development of three sectors and to protect the employees in unorganized sector.</p>
JULY AUG	25 23	SECTORS OF INDIAN ECONOMY MONEY AND CREDIT	<ul style="list-style-type: none"> *Public and Private sector (contd) <p>Money as medium of exchange</p> <p>Modern forms of money</p> <p>Loan activities by Banks</p>	<p>Students will do an activity of exchanging goods for goods and will learn about the importance of money on various situations.</p> <p>Analysis of cheque and demand draft formats.</p>

			Two different credit situations	
SEPT	23	REVISION OF ALL SECTIONS FOR HALF – YEARLY EXAMINATION	*What is globalization * Production across countries	
OCT	19	GLOBALISATION	• Interlinking production across countries	Students will be able to explain the working of the Global economic phenomenon.
NOV	20	GLOBALISATION	Foreign trade and integration of markets • Factors that have enabled globalization • WTO • Impacts of Globalisation in India • The struggle for affair globalization.	Students will identify the role of international organization in trading process of different countries.
DEC	22	REVISION OF ALL SECTIONS FOR PRE BOARD EXAMINATION		Submission of project on selected projects
JAN	20	V.V.	• Discussion of pre board question papers and sample papers. • Solving of previous year question papers	
FEB	22		BOARD EXAMINATION	

Month	Working Days	Topics/Chapter	ACTIVITIES / N.E.P	LEARNING OUTCOME
April	23	Chapter -1: Resources and Development: * Concept * Development of Resources, Resource Planning, Resource Planning in India. Conservation of Resources *Land Resources *Land Utilization *Land Use Pattern in India *Land Degradation and Conservation Measures *Soil as a Resource - Classification of Soils, Soil Erosion and Soil Conservation (excluding Box Information on State of India's Environment)	*Make a project showing consumption and conservation of Resources in your locality	*Understand the value Of resources and the need for their judicious utilization and Conservation.
May	15	Chapter -1 continue	*Revision test	
June	18	Chapter -2: Forest and Wildlife Resources *Conservation of forest and wildlife in India. *Types and distribution of forests and wildlife resources *Community and Conservation	*Make a Project on wildlife Sanctuary in India.	*Understand the importance of forests and wild life. *Understand the ability and knowledge of how forest and wildlife conservation and management relate to the economy and environment, both currently and in the future.

July	25	Chapter-3: Water Resources *Water Scarcity and The Need for Water Conservation and Management *Multi-Purpose River Projects and Integrated Water Resources Management *Rainwater Harvesting	*Revision Test	*Comprehend the importance of water as a resource as well as develop awareness towards its judicious use and conservation.
August	23	Chapter-4: Agriculture *Types of farming – Primitive Subsistence, Intensive Subsistence, Commercial. *Cropping pattern- Major crops, food crops other than grains, Non Food crops, Technological and institutional reforms *Food security excluding Impact of Globalization on agriculture)	*Make a project On Agriculture	*Explain the importance of Agriculture in national economy. Explain various government policies for Institutional as well As technological Reforms since independence.
September	23	• Term - 01 exam		
October	19	Chapter-5: Minerals and Energy Resources *What is a mineral? *Mode of occurrence of Minerals – Where are these minerals found, Ferrous Minerals, Non-Ferrous Minerals, Non-Metallic Minerals, Rock Minerals *Conservation of Minerals & Energy Resources - Conventional Sources of	*Name some river valleys projects and write the names of dams built on these rivers.	*Identify different types of minerals and energy resources and places of their availability. Feel the need for their judicious utilization.

		<p>Energy, Non-Conventional Sources of Energy *Conservation of Energy Resources</p>		
November	20	<p>Chapter -6: Manufacturing Industries:</p> <p>*Importance of Manufacturing – Industrial Location (excluding Industry MarketLinkage), Agro based Industry(excluding Cotton Textiles, Jute Textiles, Sugar Industry), Mineral based Industries (excluding Iron Steel Industry, Cement Industry), Industrial Pollution and EnvironmentalDegradation, Control of Environmental Degradation</p>	<p>*Make a list of Agro – based and mineral based Industries in your state</p>	<p>*Bring out the importance of industries in the national economyas well as understand the regional disparities which resulted due to concentration of industries in some areas.</p>
December	22	<p>Chapter-7: Life Lines of National Economy:</p> <ul style="list-style-type: none"> • Roadways • Railways • Pipelines • Waterways • Major Seaports • Airways • Communication • International Trade • Tourism as a Trade 	<p>*Find out the current railway zones and their headquarters.</p>	<p>*Explain the importance of transport and communication inthe ever-shrinking world.</p> <p>*Understand the role of trade and tourism in the economic development of a country.</p>
January	20	<ul style="list-style-type: none"> • Revision 	<p>Mock test- 1</p>	
February	22	<ul style="list-style-type: none"> • Revision 	<p>Mock Test-2</p>	
March	23	<p>Final Term</p>		

INFORMATION TECHNOLOGY

<u>MONTH</u>	<u>No. of Working days</u>	<u>TOPIC</u>	<u>ACTIVITY / N.E.P</u>	<u>LEARNING OUTCOME</u>
APRIL	23	Part-A Ch-1 Communication Skills-II *Methods of Communication *Verbal *Non-Verbal *Visual Ch-2 Self-Management skills-II *Self confidence *Describe the meaning & importance of Self-Management.	<ul style="list-style-type: none"> *Writing pros & Cons of Written, Verbal & Non-Verbal Communication *Listening do's don'ts For avoiding common body language mistakes. *Draw a diagram of Communication Cycle. *Role plays on Communication process related to the job role. 	<ul style="list-style-type: none"> *Demonstrate knowledge of various methods of Communication. *Identify elements of Communication Cycle. *Demonstrate the knowledge of basic writing skills.
MAY	15	Ch-3 Basic ICT skills-II *Smart phones & Tablets *Role & Importance of ICT in personal life & at workplace	<ul style="list-style-type: none"> *Identify & list the various IT enabled services. *List few hardware & Software. *Identify the various input, output & Storage devices. *Identify the installed OS on Computer. 	<ul style="list-style-type: none"> *Describe the role of ICT in day-to-day life. *Identify the various components of Computer System. Identify various peripheral devices.
JUNE	18	Part-B Ch-6 Digital Documentation *Open Office Writer, Creating & Saving a Document *Introduction to word. Ch-7 Electronic Spreadsheet *Worksheet & Workbook *Cell & Cell Address.	<ul style="list-style-type: none"> *Create mail merge in a word document. *List the available words processing applications. *Type some text in the document & edit it. *Create a student spreadsheet & enter all the details & apply 	<ul style="list-style-type: none"> *Use typing Software. *Edit the document *Start the Word processing Application. *Create a Spreadsheet. *Enter & edit the text in Spreadsheet. *Use Referencing.

			the different functions of Spreadsheet.	
JULY	25	Part-A Ch-4 Entrepreneurial skills. *Wage Employment.Role of Entrepreneur *Meaning of entrepreneurship development.	*Prepare posters of business activities found in Cities, villages using pictures. *Prepare list of businesses that provides goods & Services in exchange for money.	*Identify various types of business activities. *Demonstrate the knowledge of distinguishing characteristics of entrepreneurship.
AUGUST	23	Ch-8 Data Base Management system *RDBMS, FORMS, REPORTS, QUERIES. *Creating a database object.	*Create a Student Database & enter all the details. *Create a relationship between two or more tables with the help of primary key.	*Creating Relationships between two tables. *Creating forms, queries & reports.
SEPTEMBER	23	Revision for Annual term. Question paper discussion. Ch-8 Data Base Management system *RDBMS, FORMS, REPORTS, QUERIES. *Creating a database object.	*Create a Student Database & enter all the details. *Create a relationship between two or more tables with the help of primary key.	*Creating Relationships between two tables. *Creating forms, queries & reports.
OCTOBER	19	Ch-9 Web Application & Security. *Internet security,Hacking,Cracking *Networking Fundamentals		*Introduction to Instant Messaging. *Chatting with a contact. *Creating web pages-blogs.
NOVEMBER	20	Part-B Ch-5 Green Skills. *Relation between society & Environment.	*Group discussion on Hazards of deteriorating environment.	*Describe the importance of green economy & green skills.

			*Prepare posters showing environment conservation.	
DECEMBER	22	Mock test 1		
JANUARY	20	Mock Test 2		
FEBRUARY	22	BOARD EXAMINATION		
MARCH	24	BOARD EXAMINATION		

