Class- X

		Maths	
Months	**No. of working days**	**Chapter / Topic**	**Portion to be taught**
March	6	**CHAPTER-2** **POLYNOMIALS**	Zeros of a polynomial. Relationship between zeros and coefficients of quadratic polynomials. Statement and simple problems on division algorithm for polynomials with real coefficients.
April	10	**Chapter-2** **POLYNOMIALS continue**	
June	18	**CHAPTER-3** **LINEAR EQUATIONS IN TWO VARIABLES** **CHAPTER-4** **QUADRATIC EQUATIONS**	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 and by cross multiplication method. Simple situational problems. Simple problems on equations reducible to linear equations. Standard form of a quadratic equation $ax2 + bx + c = 0$, $(a \neq 0)$. 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
July	27	**CHAPTER-4 continue** **CHAPTER-5** **ARITHMETIC PROGRESSIONS** **CHAPTER-7** **COORDINATE GEOMETRY**	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 **Review:** Concepts of coordinate geometry, graphs of linear equations. Distance formula. Section formula (internal division). Area of a triangle.
Aug.	23	**CHAPTER-8** **INTRODUCTION TO TRIGONOMETRY** **CHAPTER-9** Some Applications of 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^o and 90^o. Values of the trigonometric ratios of 30^0, 45^0 and 60^0. Relationships between the ratios. **trigonometric identities** Simple problems on heights and distances. Problems should not involve more than two right triangles. Angles of elevation / depression should be only 30°, 45°, 60°.
Sept.	24	**CHAPTER-12** **AREAS RELATED TO CIRCLES** . **CHAPTER-13** **SURFACE AREAS AND VOLUMES**	Motivate the area of a circle; 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. Plane figures involving triangles, simple quadrilaterals and circle should be taken.) 1. Surface areas and volumes of combinations of any two of the following: cubes, cuboids, spheres, hemispheres and right circular cylinders/cones. Frustum of a cone. 2. Problems involving converting one type of metallic solid into another and other mixed problems. (Problems with combination of not more than two different solids be taken).

October	12	**CHAPTER-15** **PROBABILITY** **CHAPTER-14** **STATISTICS**	Classical definition of probability. Simple problems on finding the probability of an event. Mean, median and mode of grouped data (bimodal situation to be avoided). Cumulative frequency graph.
Nov.	26	**CHAPTER-14 CONTINUE** **CHAPTER – 1 REAL NUMBER** **CHAPTER – 6** **TRIANGLES**	Euclid's division lemma, Fundamental Theorem of Arithmetic - statements after reviewing work done earlier and after illustrating and motivating through examples, Proofs of irrationality of Decimal representation of rational numbers interms of terminating/non-terminating recurring decimals. Definitions, examples, counter examples of similar triangles. 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. 2. (Motivate) If a line divides two sides of a triangle in the same ratio, the line is parallel to the third side. 3. (Motivate) If in two triangles, the corresponding angles are equal, their corresponding sides are proportional and the triangles are similar. 4. (Motivate) If the corresponding sides of two triangles are proportional, their corresponding angles are equal and the two triangles are similar. 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. 6. (Motivate) If a perpendicular is drawn from the vertex of the right angle of a right triangle to the hypotenuse, the triangles on each side of the perpendicular are similar to the whole triangle and to each other. 7. (Prove) The ratio of the areas of two similar triangles is equal to the ratio of the squares of their corresponding sides. 8. (Prove) In a right triangle, the square on the hypotenuse is equal to the sum of the squares on the other two sides. 9. (Prove) In a triangle, if the square on one side is equal to sum of the squares on the other two sides, the angles opposite to the first side is a right angle.
Dec.	23	**CHAPTER-10** **CIRCLES** **CHAPTER-11** **CONSTRUCTIONS** PRE-BOARD-1	Tangent to a circle at, point of contact 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. 1. Division of a line segment in a given ratio (internally). 2. Tangents to a circle from a point outside it. 3. Construction of a triangle similar to a given triangle.
Jan.	23	PRE- BOARD-2	
Feb.	24	PRE- BOARD-3	

Detailed syllabus of class Xth Science 2019-20

Month	No. of working days	Chapter/ Topic	Portion to be taught	Portion for U.T.
March & April	06+10= 16	Ch. 15 Our environment Ch.16 Management of natural resources	Eco-system, Environmental problems, Ozone depletion, waste production and their solutions. Biodegradable and non-biodegradable substances. Conservation and judicious use of natural resources. Forest and wild life; Coal and Petroleum conservation. Examples of people's participation for conservation of natural resources. Big dams: advantages and limitations; alternatives, if any. Water harvesting. Sustainability of natural resources.	
June	18	Ch.1Chemical reaction and equation Ch.12 Electricity	Chemical equation, Balanced chemical equation, implications of a balanced chemical equation, types of chemical reactions: combination, decomposition, displacement, double displacement, precipitation, neutralization, oxidation and reduction. 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.	Ch.15 & 16
July	27	Ch.2 Acids, bases and salts Ch.14 Sources of energy Ch.6 Life processes	Their definitions in terms of furnishing of H+ and OH– ions, General properties, examples and uses, 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. Different forms of energy, conventional and non-conventional sources of energy: Fossil fuels, solar energy; biogas; wind, water and tidal energy; Nuclear energy. Renewable versus non-renewable sources of Energy.	

			'Living Being'. Basic concept of nutrition, respiration, transport and excretion in plants and animals.	
August	24	Ch.13 Magnetic effect of electric current Ch.8 How do organisms reproduce? Ch.3 Metals and non- metals	Magnetic field, field lines, field due to a current carrying conductor, field due to current carrying coil or solenoid; Force on current carrying conductor, Fleming's Left Hand Rule, Electric Motor, Electromagnetic induction. Induced potential difference, Induced current. Fleming's Right Hand Rule, Electric Generator, Direct current. Alternating current : frequency of AC. Advantage of AC over DC. Domestic electric circuits. 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. Properties of metals and non-metals; Reactivity series; Formation and properties of ionic compounds; Basic metallurgical processes; Corrosion and its prevention.	Ch.1 & 12
September	24	Ch.9 Heredity and Evolution Ch.5 Periodic classification of elements	Heredity; Mendel's contribution- Laws for inheritance of traits: Sex determination: brief introduction; Basic concepts of evolution. Need for classification, Early attempts at classification of elements (Dobereiner's Triads, Newland's Law of Octaves, Mendeleev's Periodic Table), Modern periodic table, gradation in properties, valency, atomic number, metallic and non-metallic properties.	Ch.15,16,1, 12,2,14,6, 13
October	12	Ch.4 Carbon and its compound	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 hydrocarbons and unsaturated hydrocarbons. Chemical properties of carbon compounds (combustion, oxidation, addition and substitution reaction). Ethanol and Ethanoic acid (only properties and uses), soaps and detergents.	
November	26	Ch.10 Light- reflection and refraction Ch.11 Human eye and colourful world Ch.7 Control and coordination	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,	Ch.8,3,9

			refractive index. Refraction of light by spherical lens; Image formed by spherical lenses; Lens formula (Derivation not required); Magnification. Power of a lens. Functioning of a lens in human eye, defects of vision and their corrections, applications of spherical mirrors and lenses. Refraction oflightthrough a prism, dispersion oflight, scattering oflight, applications in daily life. Tropic 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.	
December	23	Ist Preboard		Ch.1 to 16
January	23	IInd Preboard		Ch.1 to 16
February	23	IIIrd Preboard		Ch.1 to 16

CLASS : X (BOOKS: FIRST FLIGHT, FOOTPRINT WITHOUT FEET)

MONTH	DETAILED SYLLABUS
25th March - 11th April 2019	**First Flight:** L-1 A Letter to God, P-1 Dust of Snow, P-2 Fire and Ice **Footprint Without Feet:** L-1 A Triumph of Surgery **Writing skills** : Notice Writing **Grammar:** Sentence and Tense, use of Verb
June	**Recapitulation:** A letter to God, Dust of Snow and Fire and Ice / Tense **First Flight:**L-2 Nelson Mandela, P-3 A Tiger in the Zoo **Footprint Without Feet:** L-2 The thief's Story **Grammar:** Active & Passive Voice **Writing Skills:** Letter to Editor
July	**First Flight**: L-3 Two Stories about Flying, P-4 How to Tell Wild Animals, P-5 The Ball Poem **FPWF:** L-3 The Midnight Visitor, L-4 A Question of Trust **Grammar:** Reported Speech / Narration **Writing Skills:** Office Letter / Complaint Letter
August	**FF**: L-4 From The Diary of Anne Frank, P-6 Amanda, L-5 & 6 The Hundred Dresses Part – I & II, P-7 Animals **FPWF**: L-5 Footprints without Feet, L-6 Making of a Scientist **Grammar:** Fill in the gaps, Error Correction **Writing Skills:** Business Letter (Placing Order and Reply)
September	**FF**: L-7 Glimpses of India, P-8 The Tree, L-8 Mijbil the Otter, P-9 Fog **FPWF:** L-8 The Necklace **Grammar:** Degree, Preposition, Determiners & Clauses **Writing Skills:** Paragraph writing, Story Writing, Report Writing
October	**FF**: L-9 Madam Rides the Bus, P-10 The Tale of Custard the Dragon **FPWF:** L-9 Bholi **Grammar:** Integrated Grammar practice- Error Correction & Missing Words **Writing Skills:** Story Writing / enquiry Letter Writing
November	**FF:** L-10 The Sermon at Benares, P-11 For Anne Gregory, L-11 The Proposal **FPWF**: L-10 The Book that Saved the Earth **Grammar:** Error Correction, Fill in the gaps **Writing Skills:** Practicing Report Writuing
December	**Revision** **FF:** Nelson Mandela, From Anne Frank & Glimpses of India **FPWF:** The Midnight Visitor, The Making of a Scientist and The Book that Saved the Earth **Grammar:** Integrated grammar practice **Writing Skills**: Letter, Story, Report and Business
January 2020	**Revision** **ALL DOUBT CLEARANCE**

(SUBJECT TEACHER)

S.St. Syllabus

		Social science	
Months	**No. of working days**	**Chapter / Topic**	**Portion to be taught**
March	6	CH-1 Economics Development	1 Introduction .Income and other goals,.National development ,How to compare different countries and states? 5.Income and other criteria , Public Facilities
April	10	CH1- Political Science Power Sharing	Introduction ,Belgium and Sri Lank,Majoritarianism in Sri Lanka ,Sinhala Act ,Accommodation in Belgium, Forms of Power Sharing.
June	18	Ch-1 History The Rise of Nationalism in Europe	Introduction ,The French Revolution and the idea of the Nation,The making of Nationalism in Europe,The age of Revolution:1830-1848 ,The making of Germany and Italy,Visualising The Nation
July	27	CH-1 Geography Resources and development CH-2 Water Resources CH-2 Political Science Federalism	. Introduction, Types of Resources ,Resources planning in India , Land Resources Water Resources-1.Introduction ,water scarcity ,Hydralic structure in Ancient India. Political Science- Introduction,What is Federalism? What makes India A Federal Country?How is Federalism Practiced? Decentralisation in India
Aug.	23	Political science CH-3 Democracy and Diversity CH-2 History Nationalism in India	A Story from Mexico Olympics, Civil Rights Movement in the USA ,The Black Power, Differences, similarities, divisions, Overlapping and cross-cutting differences, Politics of social divisions History - Nationalism in India, 1 The First World War, Khilafat and Non-Cooperation , The Idea of Satyagraha, The Rowlatt Act, Why Non-cooperation? 2 Differing Strands within the Movement, The Movement in the Towns, Rebellion in the Countryside, 3 Swaraj in the Plantations 3 Towards Civil Disobedience, The Salt March and the Civil Disobedience Movement, The Salt March and the Civil Disobedience Movement, How Participants saw the Movement, How Participants saw the Movement, 3 The Limits of Civil Disobedience,
		CH-3	Minerals and energy resources, classification of Resources, modes of occurrence of Minerals, Ferrous

Sept.	24	Geography Minerals and energy Resources CH -2 Economics Sectors of Indian Economy Ch-3 Money and credit	Minerals, Non-Ferrous Minerals, Non-Metallic Minerals, CONSERVATION OF MINERALS-Energy Resources, Conventional Sources of Energy, Non-Conventional Sources of Energy, Tidal Energy, Geo Thermal Energy, Conservation of Energy Resources sectors of economic activities, comparing the three sectors, division of sectors as organized and unorganized sectors in terms of ownership: public and private sectors. 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.
October	12	Political science CH-4 Gender religion and caste CH-5 Political parties	Gender and politics, Sexual division of labour, Feminist, Patriarchy, Women's political representation, Religion, communalism and politics, Communalism, Secular state, Caste and politics-Caste inequalities, Caste in politics, Politics in caste. Political Parties-Why do we need political parties? Functions, Necessity, How many parties should we have? National political parties, State parties, Challenges to political parties, How can parties be reformed? Defection, Affidavit.
Nov.	26	CH-3 History The making of a Global World Ch-4 Novel, society and History	The Making of a Global World- The Pre-modern World, Silk Routes Link the World, Food Travels: Spaghetti and Potato, Conquest, Disease and Trade 2 The Nineteenth Century (1815-1914)- A World Economy Takes Shape, Role of Technology, Late nineteenth-century Colonialism, Rinderpest, or the Cattle Plague, Indentured Labour Migration from India, Indian Entrepreneurs Abroad, Indian Trade, Colonialism and the Global System, Indian Trade, Colonialism and the Global System, The Inter-war Economy-Wartime Transformations, Post-war Recovery, Rise of Mass Production and Consumption, The Great Depression, India and the Great Depression,
Dec.	23	CH-5 Geography Manufacturing	IMPORTANCE OF MANUFACTURING, Contribution of Industry to National Economy, Industrial Location, Classification of Industries, Agro Based Industries-Textile Industry, Jute Textiles, Mineral based Industries, Aluminium Smelting, Chemical Industries, Automobile

		industries CH-6 Lifeline of Indian economy Economics Ch-4 Money and credit Ch-6 Consumer Rights	Industry, Information Technology and Electronics Industry, Industrial Pollution and Environmental Degradation, Air pollution, Water pollution, Thermal pollution, Noise pollution, Control of Environmental Degradation, NTPC. Lifeline of Indian economy- TRANSPORT- Roadways, • Golden Quadrilateral Super Highways, National Highways, State Highways, District Roads, BorderRoads. globalisation and the indian economy- production across countries, interlinking production across countries, interlinking production across countries, foreign trade and integration of markets, what is globalisation? factors that have enabled globalisationworld trade organisation, impact of globalisation in india, the struggle for a fair globalisation. consumer rights-the consumer in the consumer rights,marketplace, consumer movement, taking the consumer movement forward.
Jan.	23	Political science Ch-6 Outcomes of Democracy Ch-7 Challenges to 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. Challenges to Democracy- Thinking about challenges, Different contexts, different challenges, Different types of challenges, Thinking about political reforms, Redefining democracy.

Class-X

माह	पाठ्य पुस्तक		कृतिका	व्याकरण
	गद्य	पद्य		
मार्च,अप्रैल	नेताजी का चश्मा	सूरदास,	माता का अँचल	वाच्य
जून	बालगोबिन भगत	————	————	विज्ञापन
जुलाई	लखनवी अंदाज़	उत्साह, राम – लक्ष्मण – परशुराम संवाद	जॉर्ज पंचम की नाक	रस, पत्र लेखन
अगस्त	मानवीय करुणा की दिव्य चमक	अट नहीं रही है ,यह दन्तुरित मुस्कान ,	जॉर्ज पंचम की नाक	पदपरिचय, रचना के आधार पर वाक्य भेद
सितम्बर	एक कहानी यह भी	फसल		निबंध

अक्टूबर	नौबतखाने में इबादत	छाया मत छूना, कन्यादान		अपठित गद्यांश,पद्यांश, निबंध,पत्रलेखन	
नवम्बर		संगतकार	साना – साना हाथ जोड़ी		
दिसम्बर	पुनरावृत्ति				
जनवरी	पुनरावृत्ति				
फरवरी	पुनरावृत्ति				
मार्च					