

NEW ERA PUBLIC SCHOOL
English Syllabus (2018-19)
Class X

Month	Main Course Book	Literature Reader	Workbook (Grammar)	Writing Skills	Diary Of A Young Girl
March	Unit I Health And Medicine	Two Gentlemen Of Verona Mirror	Tenses		
April	Unit II Education	The Frog And The Nightingale Mrs. Packletide's Tiger	Subject-Verb Concord Nominalization		Chapter 1 & 2
May	Unit III Science	The Letter The Dear Departed	Modals Active-Passive Voice Clauses	Formal Letter (Complaints)	Chapter 3 & 4
June			Prepositions Connectors	Story Writing (Using Cue/s)	
July	Unit IV Environment	Julius Caesar Rime Of The Ancient Mariner	Reported Speech Comparison	Formal Letter (Letter To The Editor)	Revision Of Chapter 5 & 6
August	Unit V Travel And Tourism	Not Marble , Nor The Gilded Monument A Shady Plot	Avoiding Repetition Relatives	Story Writing (Based On A Given Outline)	Revision Of Chapter 7
September	Revision for Mid Term Examination				
October	Unit VI National Integration	Ozymandias Snake Patol Babu	Determiners Non-Finites	Formal Letter (Inquiry)	Revision Of Chapter 8 & 9
November		Virtually True	Conditionals	Formal Letter (Placing Order)	
December	Revision for Pre-boards				

NEW ERA PUBLIC SCHOOL**Mathematics Syllabus (2018-19)****Class X**

MONTH	TOPIC	SUB TOPIC
March & April	CH- 1 REAL NUMBERS	Terminating and non terminating decimal expansion. Proofs of irrational numbers Fundamental theorem of Arithmetic Euclid's division lemma
	CH-2 POLYNOMIALS	Introduction Geometrical meaning of the zeroes of a polynomial Relation between zeroes and coefficients of a polynomial (Quadratic Polynomial and Cubic Polynomial) Division Algorithm for polynomials
	CH- 3 PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	Introduction Conditions for consistency and inconsistency of equations Types of solutions/ finding the unknown Algebraic methods to solve a pair of linear Equations - Substitution Method - Elimination Method - Cross Multiplication Method Graphical method to find the solution Application of Linear equations (Word Problems)
	Activity	(i)Graph of pair of linear equations in two variables
May	CH- 6 TRIANGLES	Introduction(similar figures) Basic Proportionality Theorem Application of BPT Similar triangles Area ratio theorem and its application Pythagoras theorem, its converse and their applications
	CH- 8 INTRODUCTION TO TRIGONOMETRY	Trigonometric ratios Trigonometric ratios of specific angles ($0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90°)
	Activity	(ii)Basic Proportionality Theorem (iii)Area ratio theorem

June & July	CH- 8 INTRODUCTION TO TRIGONOMETRY	Trigonometric ratios of complementary angles Trigonometric identities
	CH-9 APPLICATION OF TRIGONOMETRY	Introduction Angles of elevation and depression Heights and Distances (Word Problems)
	CH - 4 QUADRATIC EQUATIONS	Introduction Methods to find solutions Factorization and splitting of the middle term - Completing the square method - Quadratic Formula Nature of roots Applications of quadratic equations (Word Problems)
	CH - 10 CIRCLES	Concept of tangents Theorems a) Tangent to a circle is perpendicular to the radius at the point of contact b) Tangents to a circle from an external point are equal Application of theorems on tangents
	CH - 12 AREAS RELATED TO CIRCLES	Perimeter and Area of a circle
	Activity	(iv)Pythagoras theorem (v)To find the relation of sides of special right triangles (a) When the base angle is 30° (b) When the base angle is 60°
August	CH - 12 AREAS RELATED TO CIRCLES	Area of sectors and segments Areas of combinations of plane figures (Application of sector and segment of circles)
	CH-5 ARITHMETIC PROGRESSIONS	Introduction Formula for nth term of an AP and word problems Sum of first n terms of an AP Applications of sum of n terms of an AP
	CH-13 SURFACE AREAS AND VOLUMES	Surface areas of combination of solids Volume of combination of solids Conversion of solid from one shape to another Frustum of a cone

	Activity	(vi)Tangents from an external point (vii)To verify if the given series is an AP or not. (viii)Sum of n terms of an AP.
September		Revision for Mid Term Examination
October	CH -14 STATISTICS	Introduction Mean of grouped data Median of grouped data Mode of grouped data Graphical representation of Cumulative Frequency Distribution(Ogives)
	CH-11 CONSTRUCTIONS	Construction of similar triangle Construction of tangents to a circle
	CH-7 COORDINATE GEOMETRY	Introduction Distance formula Section formula Area of a triangle
November	Activity	(ix)Total surface area of a right circular cylinder (x)Curved surface area of a right circular cone
	CH- 15 PROBABILITY	Introduction Problems on single events Problems based on throw of a die, tossing a coin and playing cards etc.
December		Revision for Pre Boards

NEW ERA PUBLIC SCHOOL
Science Syllabus (2018-19)
Class X

Month	Chapter	Subtopics	Activity	Practicals
March	Chemical reactions	Writing & balancing equations, implications of a balanced chemical equation, types of chemical reactions like combination, decomposition, displacement, double displacement, neutralization, oxidation - reduction. Corrosion, rancidity.	Act.1.1, 1.2, 1.3,1.4, 1.5, 1.8 &1.9 related to different types of reactions.	1) To perform & observe different types of reaction 2) To prepare a temporary mount of a leaf peel to show stomata.
	Nutrition (life processes)	Basic concept of autotrophic, heterotrophic nutrition, saprophytic and parasitic nutrition, photosynthesis in plants, nutrition in amoeba and man.	To show different modes of nutrition.	
April	Respiration (life processes)	Aerobic & anaerobic respiration, respiratory pathways, respiration in man.	To show human respiratory system	3) To show that CO ₂ is given out during respiration. 4) Verifying Ohm's law.
	Transportation	Transportation in human beings, blood circulation, working of heart, transport of water & food in plants.	To show working of human heart	
	Excretion	Excretion in humans, formation of urine, removal of wastes in plants .	To show human excretory system	
	Electricity	Electric current, P.D. circuit, Ohm's law, Resistance, factors on which resistance of a conductor depends, resistances in series & parallel, heating effect of current, electric power	To make an electric circuit.	
May	Magnetic effect of current	.Magnetic field lines, field due to a current carrying conductor and solenoid, force on current carrying conductor, Fleming's left and	To show solenoid as an electromagnet	5(A) To determine equivalent resistance in series. 5(B) Determining equivalent resistance in parallel.

	<p>Acid, bases & salts</p> <p>Our environment</p>	<p>right hand rule, induced current, Electromagnetic induction, domestic circuits, electric fuse, A.C. D.C.</p> <p>Definition of acids and bases in terms of furnishing of H^+ and OH^- ions. Chemical properties of acids & bases, their reactions with metals, carbonates, oxides. Concept and importance of pH, salts.</p> <p>Components of ecosystems, food chain, food web, bio-magnification, ozone depletion, Biodegradable and non-biodegradable substances and garbage management.</p>	<p>To show electromagnetic induction</p> <p>To test acids & bases with indicators</p> <p>To make food chains of grassland forest & pond</p>	<p>6) To find the pH of HCl, NaOH, CH_3COOH, Water & Na_2CO_3 sol</p> <p>7) To observe the action of Zn, Fe, Cu & Al on their salt sol. & make their reactivity series</p>
<p>June & July</p>	<p>Carbon & its compounds</p> <p>Control & co-ordination.</p> <p>Metals & non-metals</p>	<p>Covalent bonds, versatile nature of carbon, homologous series, nomenclature, chemical properties, ethanol, ethanoic acid, soaps & detergents.</p> <p>Human nervous system, human brain, reflex action, plant hormones, animal hormones. Tropic and Nastic movements in plants.</p> <p>Properties of metals & non-metals, reactivity series, formation & properties of ionic compounds, basic metallurgical processes, corrosion & its prevention .</p>	<p>To make covalent bonds</p> <p>Cleansing action of soaps and detergents</p> <p>To identify Endocrine glands in the fig.</p> <p>To show reactions of metals like Fe, Al, Mg, Cu, Zn and non-metals like S, C etc</p>	<p>8) To study cleansing capacity of soap in hard & soft water</p> <p>9) To study the properties of acetic acid</p>
<p>Aug</p>	<p>Light</p>	<p>Laws of reflection, images formed by convex concave</p>	<p>To observe shapes of</p>	

	<p>Human eye</p> <p>mirrors, mirror formula, magnification. Laws of refraction, refractive index images formed by convex and concave lens, their applications, lens formula, magnification.</p> <p>Structure of eye, defects of vision, its correction, dispersion of light, scattering of light, refraction thro' prism , applications in daily life.</p> <p>Mendeleev's periodic table, modern periodic table, gradation in properties, valence, atomic no. metallic & non metallic properties</p>	<p>convex and concave mirrors & lenses.</p> <p>To show the model of human Eye.</p> <p>Write EC of 2nd group elements</p>	<p>10) To determine the focal length of concave mirror, Convex lens</p> <p>11) To draw ray diagrams for objects at various positions</p> <p>Practical Exam</p>	
Sep	Revision for Mid Term Examination			
Oct	<p>Reproduction</p> <p>Asexual & sexual reproduction in plants & animals. Sexual reproduction in humans, reproductive health, family planning, AIDS, child bearing & women's health.</p> <p>Heredity & Evolution</p> <p>Heredity, variation, Mendel's experiments and laws of inheritance, basic concepts of evolution, speciation, sex determination, human evolution.</p> <p>Sources of energy</p> <p>Renewable and non-renewable forms of energy. Conventional & non conventional sources of energy, fossil fuels, solar, biogas, wind, tidal & nuclear energy.</p>	<p>Growing mould on bread.</p> <p>To make Punnet Squares for monohybrid & dihybrid crosses.</p> <p>To show different forms of renewable energy</p>	<p>12) to study binary fission in amoeba & budding in yeast</p> <p>13) To trace the path of light through a glass slab</p> <p>14) to identify the different parts of embryo of dicot seed</p> <p>15) To trace the path of light thro' prism</p>	
Nov	<p>Management of natural resources</p> <p>Sustainable development, forest, wildlife, people's participation for</p>	<p>To make a list of forest</p>	<p>Practical exam to be conducted</p>	

		conservation, big dams, water harvesting, conservation and judicious use of natural resources.	produce that you use.	
Dec	Revision for Pre-boards			

NEW ERA PUBLIC SCHOOL
Social Science Syllabus (2018-19)
Class X

Month	History	Geography	Political Science	Economics
March		Ch.1 Resources and Development		Ch.1 Development
April		Ch.2 Forests and Wildlife Resources- deleted Ch.3 Water Resources Ch.4 Agriculture	Ch.1 Power Sharing Ch.2 Federalism	
May	Ch.6 Work, Life and Leisure		Ch.3 Democracy and Diversity Ch.4 Gender, Religion and Caste Ch.5 Popular struggles and movements-is to be done as project work only.	
June				Ch.2 Sectors of the Indian Economy
July	Ch.8 Novels , Society and History	Ch.5 Mineral and Energy Resources Ch.6 Manufacturing Industries		Ch.3 Money and credit
August	Ch.2 The Nationalist Movement in Indo China		Chp.6 Political parties Chp.7 Outcomes of Democracy Chp.8 Challenges to Democracy	
September		Revision for Mid Term Examination		
October	Ch.3 Nationalism in India	Ch.7 Lifelines of National Economy		Ch.4 Globalization and the Indian Economy
November				Ch.5 Consumer Rights
December	Revision for Pre-boards			

Map Syllabus
Class X

<u>HISTORY</u>	<u>GEOGRAPHY</u>
	<p>For Identification/Location and labelling on the Outline Political Map of India</p> <p>Chapter 1 : Resources and Development Identification only :Major soil types.</p> <p>Chapter 3 : Water Resources Locating and Labelling ; Dams along with rivers. (1) Salal; (2) Bhakra Nangal; (3) Tehri; (4) Rana Pratap Sagar; (5) Sardar Sarovar; (6) Hirakud; (7) NagarjunaSagar; (8) Tungabhadra.</p> <p>Chapter 4: Agriculture Identification only (a) Major areas of rice and wheat. (b) Largest/Major producer states of sugarcane; tea; coffee; rubber; cotton and jute.</p>
<p>Chapter 3 : Nationalism in India - (1918-1930)</p> <p>(i) For location and labelling/Identification on Outline Political Map of India</p> <p>1. Indian National Congress Session : Calcutta (Sep. 1920), Nagpur (Dec. 1920), Madras (1927)and Lahore (1929).</p> <p>2. Important Centres of Indian National Movement (Non-cooperation and Civil Disobedience Movement)</p> <p>(i) Champaran (Bihar) : Movement of Indigo Planters (ii) Kheda (Gujarat) : Peasant Satyagraha (iii) Ahmedabad (Gujarat) : Cotton Mill Workers Satyagraha (iv) Amritsar (Punjab) :JallianwalaBagh incident. (v) ChauriChaura (UP) : Calling off the Non Cooperation Movement. (vi) Dandi (Gujarat) : Civil</p>	<p>Chapter 5 : Mineral and Energy Resources</p> <p>Minerals : (Identification only)</p> <p>(i) Iron ore mines :Mayurbhanj, Durg, Bailadila, Bellary and Kudremukh. (ii) Mica mines :Ajmer, Beawar, Nellore, Gaya and Hazaribagh. (iii) Coal mines : Raniganj, Jharia, Bokaro, Talcher, Korba, Singrauli, Singareni and Neyveli (iv) Oil Fields :Digboi, Naharkatia, Mumbai High, Bassien, Kalol and Ankaleshwar. (v)Bauxite Deposits:Amarkantak plateau,Maikal hills,The plateau region of Bilaspur-Katni,Orissa panchpatmali deposits in Koraput district. (vi) Mica Deposits:Chota Nagpur plateau,Koderma Gaya-Hazaribagh belt of Jharkhand,Ajmer,Nellore mica belt. (vii)Power Plants : (Locating and Labelling only) (a) Thermal : Namrup, Talcher, Singrauli, Harduaganj, Korba, Uran, Ramagundam, Vijaywada and Tuticorin. (b) Nuclear :Narora, Rawat Bhata, Kakrapara, Tarapur, Kaiga and Kalpakkam.</p> <p>Chapter 6 : Manufacturing Industries</p> <p>For Locating and labelling only</p> <p>(i) Cotton Textile Industries : Mumbai, Indore, Ahmedabad, Surat, Kanpur, Coimbatore and Madurai.</p>

<p>Disobedience Movement.</p>	<p>(ii) Iron and Steel Plants : Burnpur, Durgapur, Bokaro, Jamshedpur, Rourkela, Bhilai, Vijaynagar, Bhadravati, Vishakhapatnam and Salem.</p> <p>(iii) Software Technology Parks : Mohali, Noida, Jaipur, Gandhinagar, Indore, Mumbai, Pune, Kolkata, Bhubaneshwar, Vishakhapatnam, Hyderabad, Bangalore, Mysore, Chennai and Thiruvananthapuram.</p> <p>Chapter 7 : Lifelines of National Economy</p> <p>Identification Only : Golden Quadrilateral, North-South Corridor and East-West Corridor</p> <p>National Highways : NH-1, NH-2 and NH-7</p> <p>Location and Labelling :</p> <p>(i) Major Ports : Kandla, Mumbai, Jawahar Lal Nehru, Marmagao, New Mangalore, Kochi, Tuticorin, Chennai, Vishakhapatnam, Paradip, Haldia and Kolkata.</p> <p>(ii) International Airports : Amritsar (Raja Sansi), Delhi (Indira Gandhi International); Mumbai (Chhatrapati Shivaji), Thiruvananthapuram (Nedimbacherry) ; Chennai (Meenam Bakkam), Kolkata (Netaji Subhash Chandra Bose) and Hyderabad (Rajiv Gandhi)</p> <p>Note : Items of locating and labelling may also be given for identification.</p>
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न्यू इरा पब्लिक स्कूल
पाठ्यक्रम 2018-2019
विषय - हिन्दी
कक्षा - दसवीं
प्रथम-सत्र

मार्च

साहित्य- 1. बड़े भाई साहब

भाषा- शब्द और पद में अंतर।

अप्रैल-मई

साहित्य- 1. डायरी का एक पन्ना 2. साखी 3. पद 4. हरिहर काका

भाषा- अनुच्छेद, पत्र-लेखन, संवाद-लेखन, विज्ञापन-लेखन, मुहावरे, रचना के आधार पर वाक्य भेद एवं रूपांतर।

जुलाई

साहित्य- 1. तताँरा वामीरो कथा 2. पर्वत प्रदेश में पावस 3. दोहे

भाषा- पत्र-लेखन, अशुद्ध वाक्यों को शुद्ध करना, विज्ञापन-लेखन, समास एवं उसके भेद, सूचना-लेखन, अनुच्छेद-लेखन, अपठित पद्यांश।

अगस्त

साहित्य- 1. मनुष्यता 2. कर चले हम फ़िदा 3. सपनों के से दिन

भाषा- संवाद-लेखन, पत्र-लेखन, मुहावरे, समास अभ्यास, विज्ञापन-लेखन, सूचना-लेखन, अपठित गद्यांश।

सितम्बर

भाषा- समास, अनुच्छेद, पत्र-लेखन, पुनरावृत्ति।

द्वितीय-सत्र

अक्तूबर

साहित्य- 1. अब कहाँ दूसरों के दुख से दुखी होने वाले 2. तोप 3. टोपी शुक्ला

भाषा- अपठित पद्यांश, अनुच्छेद, पत्र-लेखन, मुहावरे, विज्ञापन-लेखन, संवाद-लेखन ।

नवम्बर

साहित्य- 1. पतझर में टूटी पत्तियाँ 2. कारतूस 3. आत्मत्राण

भाषा- पत्र-लेखन, विज्ञापन-लेखन, अपठित-गद्यांश, सूचना-लेखन, समास-अभ्यास ।

दिसंबर

साहित्य- पुनरावृत्ति ।

भाषा- पुनरावृत्ति ।

जनवरी

साहित्य- पुनरावृत्ति ।

भाषा - पुनरावृत्ति ।

- निम्नलिखित पाठों से प्रश्न नहीं पूछे जाएँगे -

1. मधुर मधुर मेरे दीपक जल
 2. तीसरी कसम के शिल्पकार शैलेन्द्र
 3. गिरगिट
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