NEW ERA PUBLIC SCHOOL

English Syllabus (2017-18)

Class X

MONTH	MAIN COURSE BOOK	LITERATURE READER	WORKBOOK (GRAMMAR)	WRITING SKILLS	DIARY OF A YOUNG GIRL
APRIL	UNIT I HEALTH AND MEDICINE	* TWO GENTLEMEN OF VERONA *MIRROR	* TENSES * SUBJECT-VERB CONCORD		
MAY	UNIT II EDUCATION	* THE FROG AND THE NIGHTINGALE * MRS PACKLETIDE'S TIGER	* MODALS * NOMINALIZATION	* FORMAL LETTER (COMPLAINTS)	CHAPTER 1 & 2
JUNE			* PREPOSITIONS * CONNECTORS	* STORY WRITING (USING CUE/S)	
JULY	UNIT III SCIENCE	* THE LETTER * THE DEAR DEPARTED	* ACTIVE-PASSIVE VOICE * CLAUSES	* FORMAL LETTER (LETTER TO THE EDITOR)	CHAPTER 3 & 4
AUGUST		* NOT MARBLE , NOR THE GILDED MONUMENT * A SHADY PLOT	* AVOIDING REPETITION * RELATIVES	* STORY WRITING (BASED ON A GIVEN OUTLINE)	CHAPTER 5 & 6
SEPTEMBER	UNIT IV ENVIRONMENT	*OZYMANDIAS	*REPORTED SPEECH		
OCTOBER		* JULIUS CAESAR * RIME OF THE ANCIENT MARINER	* DETERMINERS	* FORMAL LETTER (INQUIRY)	CHAPTER 7
NOVEMBER	UNIT V TRAVEL AND TOURISM	* SNAKE * PATOL BABU	* NON-FINITES * CONDITIONALS	* FORMAL LETTER (PLACING ORDER)	CHAPTER 8 & 9
DECEMBER	UNIT VI NATIONAL INTEGRATION	* VIRTUALLY TRUE	* COMPARISON		

NEW ERA PUBLIC SCHOOL
Mathematics Syllabus (2017-18)
Class - X

S.No.	MONTH	TOPIC	SUB TOPIC
1	APRIL / MAY	**CH- 1 REAL NUMBERS**	Euclid's division lemma Fundamental theorem of Arithmetic Proofs of irrational numbers Terminating and non terminating expansion
		CH-2 POLYNOMIALS	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 Graphical method to find the solution Condition for consistency and inconsistency of Equations Types of solutions and to find the value of k Algebraic methods of solving a pair of linear Equations - Substituting Method - Elimination Method - Cross Multiplication Method Application of Linear equations (Word Problems)
		ACTIVITY (i)	Graph of pair of linear equations in two variables
2	JUNE / JULY	**CH- 6 TRIANGLES**	Introduction(similar figures) Basic Proportionality Theorem Applications of BPT Similar triangles Area ratio theorem and its applications Pythagoras theorem its converse and their Applications
		CH - 4 QUADRATIC EQUATIONS	Introduction - Solution of a quadratic equation by factorization Solution of a quadratic equation by - Completing square method - Quadratic Formula Nature of roots Applications of quadratic equations (Word Problems)
		CH- 8 INTRODUCTION TO TRIGONOMETRY	Trigonometric ratios Trigonometric ratios of specific angles (0°,30°,45°,60° and 90°) Complementary angles

		ACTIVITY (ii) (iii)	BPT Area ratio theorem
3	**AUG**	**CH- 8 INTRODUCTION TO TRIGONOMETRY**	Trigonometric identities
		CH-9 APPLICATION OF TRIGONOMETRY	Introduction Angles of elevation and depression Heights and Distances (Word Problems)
		CH - 12 AREA RELATED TO CIRCLES	Perimeter and Area of a circle Area of sectors and segments Areas of combinations of plane figures (Application of sector and segment of circles)
		ACTIVITY (iv) (v)	Pythagoras theorem To find the relation of sides of special right triangles (a) When the base angle is 30^o (b) When the base angle is 60^o
4	**SEPT**		**Revision for First Term**
5	**OCT**	**CH - 10 CIRCLES**	Concept of tangents Theorems Applications of theorems on tangents
		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
		ACTIVITY (vi) (vii) (viii)	Tangents from an external point To verify that given series is AP or not. Sum of n terms of an AP.
6	**NOV**	**CH-11 CONSTRUCTIONS**	Division of a line segment Construction of similar triangle Construction of tangents to a circle
		CH -14 STATISTICS	Mean of grouped data Median of grouped data Mode of grouped data Graphical representation of Cumulative Frequency

			Distribution(Ogives)
		CH-8 COORDINATE GEOMETRY	Introduction Distance formula Section formula
		ACTIVITY (ix) (x)	Total surface area of a right circular cylinder Curved surface area of a right circular cone
7	**DEC**	**CH-8 COORDINATE GEOMETRY** **CH- 15 PROBABILITY**	Area of a triangle Introduction Problems on single events Problems based on throw of a die, tossing a coin and playing cards etc. **Revision**

NEW ERA PUBLIC SCHOOL

Science Syllabus (2017-18)

Class X

Month	Chapter	Scope/subtopics	Activity	Practicals
April	**Chapter1: Chemical Reactions and Equations**	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.
	Chapter 6: Life Processes Nutrition **Practicals**	Basic concept of autotrophic, heterotrophic nutrition, saprophytic and parasitic nutrition, photosynthesis in plants, nutrition in amoeba and man.	To show different modes of nutrition.	
May	**Life Processes (Respiration, Transportation & Excretion)**	Aerobic & anaerobic respiration, respiratory pathways, respiration in man. Transportation in human beings, blood circulation, working of heart, transport of water & food in plants. Excretion in humans, formation of urine, removal of wastes in plants .	To show human respiratory system To show human excretory system	3) To show that light is necessary for photo-Synthesis. 4) To find the pH of HCl, NaOH, CH_3COOH, Water& Na_2CO_3 sol. 5) To show that CO_2 is given out during respiration. 6) To study the properties of acids & bases.
	Chapter 12: Electricity **Practicals**	Electric current, P.D. circuit, Ohm's law,		
June	**Electricity Contd….**	Resistance, factors on which resistance of a conductor depends, resistances in series &parallel, heating effect of current, electric power.	To make an electric circuit.	7) Verifying Ohm's law. 8)to study binary fission in amoeba& budding in yeast

July	**Chapter 13: Magnetic Effects of Electric Current** **Chapter 2: Acid, Bases & Salts** **Chapter 7: Control& Coordination.** **Practicals**	Magnetic field lines, field due to a current carrying conductor and solenoid, force on current carrying conductor, Fleming's left and right hand rule, induced current, Electromagnetic induction, domestic circuits, electric fuse, A.C. D.C. 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. Human nervous system, human brain, reflex action, plant hormones, animal hormones. Tropic and Nastic movements in plants.	To show solenoid as an electromagnet To show electromagnetic induction To test acids & bases with indicators To identify Endocrine glands in the fig.	9) To determine equivalent resistance in series. 10)to identify the different parts of embryo of dicot seed
Aug	**Chapter 3: Metals & Non-metals** **Chapter 10: Light – Reflection and Refraction** **Practicals**	Properties of metals & non-metals, reactivity series, formation & properties of ionic compounds, basic metallurgical processes, corrosion & it's prevention . Laws of reflection, images formed by convex concave mirrors, mirror formula, magnification. Laws of refraction, refractive index images formed by convex and concave lens, their applications, lens formula, magnification.	To show metals like Fe, Al, Mg ,Cu, Zn and non-metals like S, C etc To observe shapes of convex and concave mirrors & lenses.	**Practical exam** 11) Determining equivalent resistance in parallel. 12) To observe the action of Zn, Fe, Cu &Al on their salt sol.& make their reactivity series. 13) To determine the focal length of concave mirror, Convex lens 14) To study cleansing capacity of soap in hard &soft water

Sep	**Chapter 11: Human eye and the Colorful World**	Structure of eye, defects of vision, its correction, dispersion of light, scattering of light, refraction thro' prism , applications in daily Life.	To show the model of human Eye.	
Oct	**Chapter 8: How do Organisms Reproduce**	Asexual & sexual reproduction in plants &animals. Sexual reproduction in humans, reproductive health, family planning, AIDS, child bearing & women's health.	Growing mould on bread.	15) To trace the path of light through a glass slab 16) To study the properties of acetic acid
	Chapter 5: Periodic Classification of Elements	Mendeleev's periodic table, modern periodic table, gradation in properties, valency, atomic no. metallic & non metallic properties	Write EC of 2^{nd} group elements	17) To trace the path of light thro' prism 18) To study saponification reaction for preparation of soap.
	Chapter 4: Carbon & its Compounds **Practicals**	Covalent bonds, versatile nature of carbon, homologous series, nomenclature, chemical properties, ethanol, ethanoic acid, soaps & detergents.	To make covalent bonds	
Nov	**Chapter 9: Heredity & Evolution**	Heredity, variation, Mendel's experiments and laws of inheritance, basic concepts of evolution, speciation, sex determination, human evolution.	To make Punnet Squares for monohybrid & dihybrid crosses.	**Note : To be done in class** 19) To draw ray diagrams for objects at various positions
	Chapter 14: Sources of energy	Renewable and non-renewable forms of energy. Conventional & non conventional sources of energy, fossil fuels, solar, biogas, wind, tidal & nuclear energy.		20) To study homologous, analogous organs
	Chapter 16: Management of natural resources	Sustainable development, forest, wildlife, people's participation for conservation, big dams, water harvesting, conservation and judicious use of natural resources.	To make a list of forest produce that you use.	

Dec	**Chapter 15: Our environment**	Components of ecosystems, food chain, food web, biomagnifications, ozone depletion, Biodegradable and non-biodegradable substances and garbage management.	To make food chains of grassland forest & pond	**Practical exam**

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Social Science Syllabus (2017-18)

Class X

Month	Chapter No.	Name of the chapter
April	1.Geo: Ch-1 2.Eco: Ch-1 3.Geog:Ch-2	1.Resources and Development 2.Development 3.Forests and Wildlife Resources-Deleted
May	4. Hist : Ch-6 5.Geog: Ch-3 6.Pol.Sc: Ch-1	4. Work, Life and Leisure 5. Water Resources 6.Power Sharing
June + July	7. Pol.Sc: Ch-2 8.Geog: Ch- 4 9. Pol.Sc: Ch-3 10.Pol.Sc: Ch- 4 11:Eco: Ch-2	7.Federalism 8.Agriculture (Pg 44-47 deleted from food security onwards) 9.Democracy and Diversity 10.Gender,Religion and Caste 11.Sectors of the Indian Economy
August	12.Hist: Ch-8 13.Geog: Ch-5 14.Pol.Sc:Ch-5 15.Eco:Ch-3	12.Novels,Society and History 13.Minerals and Energy Resources 14. Popular struggles and movement-To be done as Project work only. 15.Money and Credit
September	Revision of SA - 1 Exams	
October	16.Hist : Ch- 2 17.Geog:Ch- 6 18.Pol.Sc:Ch- 6	16.The Nationalist Movement in Indo China 17.Manufacturing Industries-(pg 74-75 is not required) 18. Political parties
November	19.Hist:Ch- 3 20.Geog:Ch- 7 21.Pol.Sc:Ch-7 22.Eco.Ch- 4	19.Nationalism in India 20.Lifelines of National Economy 21.Outcomes of Democracy 22.Globalisation and the Indian Economy
December	23.Pol.Sc:Ch- 8 24.Eco.Ch- 5	23.Challenges to Democracy 24.Consumer Rights
January & Feb		

SOCIAL SCIENCE -MAP SYLLABUS

HISTORY	**GEOGRAPHY**
Chapter 3 : Nationalism in India - (1918-1930) **(i) For location and labelling/Identification on Outline Political Map of India** 1. Indian National Congress Sessions: Calcutta (Sep. 1920), Nagpur (Dec. 1920), Madras (1927) and Lahore (1929). 2. Important Centres of Indian National Movement (Non-cooperation and Civil Disobedience Movement) (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 Disobedience Movement.	**For Identification/Location and labelling on the Outline Political Map of India** **Chapter 1 : Resources and Development** **Identification only:** Major soil types. **Chapter 3 : Water Resources** **Locating and Labelling**; Dams along with rivers. (1) Salal (2) Bhakra Nangal (3) Tehri (4) Rana PratapSagar (5)SardarSarovar (6)Hirakud (7) NagarjunaSagar(8) Tungabhadra. **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. **Chapter 5 : Mineral and Energy Resources** **Minerals :** (Identification only) (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 Neyvali (iv)**Oil Fields:** Digboi, Naharkatia, Mumbai High, Bassien, Kalol and Ankaleshwar. **(v)Bauxite Deposits**: Amarkantakplateau, Maikalhills, The plateau region of Bilaspur-Katni, Orissapanchpatmali deposits in Koraput district. **(vi) Mica Deposits**:Chota Nagpur plateau,KodermaGaya-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, RawatBhata, Kakrapara, Tarapur, Kaiga and Kalpakkam.

	Chapter 6 : Manufacturing Industries **For Locating and labelling only** (i) **Cotton Textile Industries :** Mumbai, Indore, Ahmedabad, Surat, Kanpur, Coimbatore and Madurai. (ii) **Iron and Steel Plants :** Burnpur, Durgapur, Bokaro, Jamshedpur, Rourkela, Bhilai, Vijaynagar, Bhadravati, Vishakhapatnam and Salem. (iii) **Software Technology Parks :** Mohali, Noida, Jaipur, Gandhinagar, Indore, Mumbai, Pune, Kolkata, Bhubaneshwar, Vishakhapatnam, Hyderabad, Bangalore, Mysore, Chennai and Thiruvanantapuram. **Chapter 7 : Lifelines of National Economy** **Identification Only :** Golden Quadrilateral, North-South Corridor and East-West Corridor **National Highways :** NH-1, NH-2 and NH-7 **Location and Labelling :** **(i) Major Ports :** Kandla, Mumbai, Jawahar Lal Nehru, Marmagao, New Mangalore, Kochi, Tuticorin, Chennai, Vishakhapatnam, Paradip, Haldia and Kolkata. **(ii) International Airports :** Amritsar (Raja Sansi), Delhi (Indira Gandhi International); Mumbai (ChhatrapatiShivaji), Thiruvanantapuram (Nedimbacherry) ; Chennai (MeenamBakkam), Kolkata (Netaji Subhash Chandra Bose) and Hyderabad(Rajiv Gandhi) **Note :** Items of locating and labelling may also be given for identification

न्यू इरा पब्लिक स्कूल

पाठ्यक्रम 2017-2018

कक्षा - दसवीं

प्रथम-सत्र

अप्रैल मई

साहित्य- 1. बड़े भाई साहब 2. डायरी का एक पन्ना 3. साखी 4. पद

भाषा- शब्द और पद विस्तृत ज्ञान, मिश्रित व संयुक्त वाक्य-संरचना व रूपांतरण, अनुच्छेद, पत्र-लेखन, संवाद-लेखन, विज्ञापन-लेखन, मुहावरे, रचना के आधार पर वाक्य भेद।

जून-जुलाई

साहित्य- 1. तताँरा वामीरो कथा 2.तीसरी कसम के शिल्पकार शैलेन्द्र 3. पर्वत प्रदेश में पावस 4. हरिहर काका

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

अगस्त

साहित्य- 1. गिरगिट 2. तोप 3. मनुष्यता 4. कर चले हम फिदा

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

सितम्बर

साहित्य- 1. सपनों के से दिन

भाषा- समास, लोकोक्तियाँ, अनुच्छेद, पत्र-लेखन, अपठित गद्यांश।

द्वितीय-सत्र

अक्तूबर

साहित्य- 1. अब कहाँ दूसरों के दुख से दुखी होने वाले 2. मधुर-मधुर मेरे दीपक जल
3. टोपी शुक्ला

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

नवम्बर

साहित्य- 1. पतझर में टूटी पत्तियाँ 2. कारतूस 3. दोहे 4.आत्मत्राण

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

दिसंबर

साहित्य- पुनरावृत्ति

भाषा- पुनरावृत्ति।

जनवरी

साहित्य- पुनरावृत्ति

भाषा - पुनरावृत्ति।
