NEW ERA PUBLIC SCHOOL, DWARKA
SYLLABUS (2019-20)
CLASS: X

SUBJECT: ENGLISH

MONTH & WORKING DAYS	UNIT/ CHAPTER/ SUB TOPICS	WRITING SKILLS/ GRAMMAR	ACTIVITIES
TERM I			
APRIL (20)	A Letter to God Dust of Snow (Poem), Fire & Ice (Poem) Two Stories About Flying The Trees (Poem) Supplementary Reader- A Triumph of Surgery The Hack Driver	Relative Clauses, Letter Writing	Debate
MAY (18)	Nelson Mandela-Long Walk to Freedom A Tiger in the Zoo (Poem) Supplementary Reader- The Thief's Story Bholi	Infinitives, Subject-Verb Agreement, Article Writing	PPT Presentation
JULY (23)	From the Diary of Anne Frank Madam Rides the Bus How to Tell Wild Animals (Poem) The Ball poem (Poem) Supplementary Reader- The Midnight Visitor The Book that Saved the Earth	Reporting Verbs, Participle Clauses, Paragraph Writing, Newspaper Report	Class Presentation
AUGUST (21)	Amanda (Poem), Animals (Poem) The Hundred Dresses (I & II) Tale of Custard the Dragon Supplementary Reader- A Question of Trust, Footprints without Feet	Reported Speech, Story Writing	Story Relay
SEPTEMBER (20)	Supplementary Reader- The Making of a Scientist **Revision**		

TERM II			
OCTOBER (15)	Glimpses of India Mijbil the Otter Madam Rides the Bus For Anne Gregory (Poem) The Sermon at Banaras The Proposal Supplementary Reader- The Necklace	Integrated Grammar	Group Discussion
NOVEMBER (20)	Revision for Pre-Board Examination		
DECEMBER (18)	PRE-BOARD I EXAMINATION		
JANUARY (15)	PRE-BOARD II EXAMINATION		

न्यू इरा पब्लिक स्कूल , द्वारका
हिंदी पाठयक्रम **(2019-20)**
कक्षा – दसवीं

माह	गद्य - स्पर्श	पद्य - स्पर्श	संचयन	व्याकरण
अप्रैल,मई-19	बड़े भाई साहब डायरी का एक पन्ना	साखी पद		शब्द और पद का विस्तृत ज्ञान, रचना के आधार पर वाक्य भेद , अनुच्छेद लेखन पत्र लेखन, विज्ञापन लेखन , मुहावरे
जून,जुलाई-19	तताँरा वामीरो कथा	पर्वत प्रदेश में पावस तोप	हरिहर काका	मिश्रित व संयुक्त वाक्य संरचना व रूपांतरण वाक्य अशुद्धि-शोधन समास,सूचना-लेखन अनुच्छेद-लेखन,पत्र-लेखन, अपठित- गद्यांश
अगस्त - 19	अब कहाँ दूसरों के दुःख से दुखी होने वाले	कर चले हम फ़िदा मनुष्यता		संवाद-लेखन समास,विज्ञापन -लेखन , सूचना-लेखन अपठित-पद्यांश मुहावरे
सितम्बर -19			सपनों के से दिन	
अक्टूबर - 19	पतझर में टूटी पत्तियाँ	दोहे आत्मत्राण	टोपी शुक्ला	पत्र-लेखन, अनुच्छेद-लेखन, विज्ञापन -लेखन , सूचना-लेखन वाक्य संरचना व रूपांतरण
नवम्बर - 19	कारतूस			शब्द और पद संवाद-लेखन, पत्र-लेखन अनुच्छेद -लेखन विज्ञापन-लेखन मुहावरे
जनवरी - 20	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति	पुनरावृत्ति

SUBJECT: MATHEMATICS

MONTH & WORKING DAYS	UNIT	SUB TOPICS	PRACTICALS/ PROJECTS/ ACTIVITIES
TERM I			
APRIL (20)	• REAL NUMBERS • POLYNOMIALS • PAIR OF LINEAR EQUATIONS IN TWO VARIABLES	Euclid's division lemma, Proof of irrationality , rational and irrational numbers. Zeros of a polynomial, relationship between zeros and coefficients, problem solving Graphical method, substitution, elimination, cross multiplication and method of reduction.	• Graphical representation of pair of linear equations.
MAY (18)	• QUADRATIC EQUATIONS • ARITHMETIC PROGRESSIONS • COORDINATE GEOMETRY	Solutions of quadratic equations, factorisation method, quadratic formula , completing the square method. Derivation of nth term of an A.P., sum to n terms and their applications. Graph of linear equations, distance formula, section formula, mid point formula, area of triangle. Applications.	• To check whether the given sequences are arithmetic progressions or not. • To verify that the sum of first n natural numbers is $n(n +1) / 2$ To draw the mirror image of a triangle about the x axis and find its area using the coordinates of the vertices.
JUNE	SUMMER VACATION		

JULY (23)	• TRIANGLES • INTRODUCTION TO TRIGONOMETRY	Proofs of - BPT, area ratio theorem, Pythagoras thm. and its converse. Applications. T - Ratios of acute angles between 0 and 90 degrees. Relationship between the ratios. Identities and t – ratios od complementary angles.	• To verify the mid point theorem. • To verify the Pythagoras theorem.
AUGUST (21)	• HEIGHTS AND DISTANCES • CONSTRUCTIONS • STATISTICS	Applications of T- ratios. Division of line segment in given ratio, tangents to a circle from a point outside it, construction of a triangle similar to a given triangle. Mean, Median, Mode, Empirical formula, less than and more than Ogive.	• To verify that the radius of a circle joining the point of contact of a tangent to the centre will be perpendicular to the tangent.
SEPTEMBER (20)	• PROBABILITY • CIRCLES	Finding probability of an event. Tangent to a circle, theorems and their proofs.	• To verfy that the tangents to a circle, drawn from the same external point are equally inclined to the line joining the point to the cen-
TERM II			
OCTOBER (15)	• AREAS RELATED TO CIRCLES • SURFACE AREAS AND VOLUMES	Area and perimeter of sector, segment and quadrant of a circle. Surface area and volume of cube, cuboid, cylinder, cone, hemisphere, sphere, frustum of a cone and combination of figures.	• To derive the area of a sector using origami sheets. • To derive the TSA of a cylinder.
NOVEMBER (20)	Revision for Pre-Board Examination		
DECEMBER (18)	PRE-BOARD I EXAMINATION		
JANUARY (15)	PRE-BOARD II EXAMINATION		

SUBJECT: SCIENCE

MONTH & WORKING DAYS	UNIT	SUB TOPICS	PRACTICALS/ PROJECTS/ ACTIVITIES
		TERM I	
APRIL (20)	**1. 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.	1) To perform & observe different types of reaction
			2) To prepare a temporary mount of a leaf peel to show stomata.
	6. Life Processes (Nutrition)	Basic concept of autotrophic, heterotrophic nutrition, saprophytic and parasitic nutrition, photosynthesis in plants, nutrition in amoeba and man.	3) To trace the path of light through a glass slab
			4) To trace the path of light thro' prism
	10. Light	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.	
MAY (18)	**2. Acid, bases & salts**	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.	the pH of HCl, NaOH, CH_3COOH, water & Na_2CO_3 sol.
	6. Life Processes (Respiration)	Aerobic & anaerobic respiration, respiratory pathways, respiration in man.	6) To show that CO_2 is given out during respiration.
	(Transportation)	Transportation in human beings, blood circulation, working of heart, transport of water & food in plants.	7) To determine the focal length of concave mirror, Convex lens
	11. Human eye and Colourful World	Structure of eye, defects of vision, its correction, dispersion of light, scattering of light, refraction thro' prism , applications in daily Life.	

JUNE	SUMMER VACATION		
JULY (23)	**3. Metals & non-metals**	Properties of metals & non-metals ,Reactivity series, formation & properties of ionic compounds, basic metallurgical processes, corrosion & it's prevention .	8) To study the properties of acids and bases & their reactions.
	12.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.	9) Verifying Ohm's law.
	6. Life Processes (Excretion)	Excretion in humans, formation of urine, removal of wastes in plants .	10) to study binary fission in amoeba& budding in yeast
	7.Control & coordination	Human nervous system, human brain, reflex action, plant hormones, animal hormones. Tropic and Nastic movements in plants	
AUGUST (21)	**5. Periodic classification of elements**	Mendeleev's periodic table, modern periodic table, gradation in properties, valency, atomic no. metallic & non metallic properties	11) To observe the action of Zn, Fe, Cu &Al on their salt sol.& make their reactivity series.
	4. Carbon & its compounds	Covalent bonds, versatile nature of carbon, homologous series, nomenclature	12) to identify the different parts of embryo of dicot seed
	8.Reproduction	Asexual & sexual reproduction in plants &animals.Sexual reproduction in humans, reproductive health, family planning, AIDS, child bearing & women's health.	13) To determine equivalent resistance in series.
	13. 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 right hand rule, induced current, Electromagnetic induction, domestic circuits, electric fuse, A.C. and D.C	14) Determining equivalent resistance in parallel.

SEPTEMBER (20)	Revision for 1st term		
TERM II			
OCTOBER (15)	**4. Carbon & its compounds**	chemical properties, ethanol, ethanoic acid, soaps & detergents.	15) To study the properties of acetic acid
	16.Managem- ent of natural resources	Sustainable development, forest, wildlife, people's participation for conservation, big dams, water harvesting, conservation and judicious use of natural resources	16)To study the cleansing capacity of soap in hard and soft water.
	15.Our environm-ent	Components of ecosystems, food chain, food web, biomagnifications, ozone depletion, Biodegradable and non- biodegradable substances and garbage management	
	9. Heredity & Evolution	Heredity, variation, Mendel's experiments and laws of inheritance, basic concepts of evolution, speciation, sex determination, human evolution.	17) To draw ray diagrams for objects at various positions
	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.	
NOVEMBER (20)		Revision for Pre-Board Examination 1	
DECEMBER (18)		PRE-BOARD I EXAMINATION	
JANUARY (15)		PRE-BOARD II EXAMINATION	

SUBJECT: SOCIAL SCIENCE

MONTH & WORKING DAYS	UNIT	SUB TOPICS	PRACTICALS/ PROJECTS/ ACTIVITIES
TERM I			
APRIL (20)	**Eco.**Chp.1 The story of Development(5pds) **Pol. Sc.** Ch.1 Power Sharing (6pds.) **Geo.**Chp.1 Resources and Development (5pds) **Eco.**Chp.2 The sectors of Indian economy(5pds)	HDI, sustainable development, GDP; Need & forms of Power Sharing;Classification of resources and soils. Eco. Activities;	Political cartoons Map study Case studies Belgium, Srilanka & on various sectors of economy
MAY (18)	**Geo.** Chp.2 Forest and wildlife resources (4pds)-Only for Periodic test **Geo.** Chp.3 Water Resources(4pds)-Only for Periodic test	Biodiversity, community & conservation, case studies Dams: pros and cons, rainwater harvesting;	Map skills on the dams and rivers of India
JUNE	SUMMER VACATION		
JULY (23)	**Pol sc.** Ch2 Federalism (5pds.) **Pol. Sc.**Chp.3 Democracy and Diversity(5pds) -Only for Periodic test **His.** Chp.1The rise nationalism in Europe (10pds) **Eco.**Ch.3 Money and Credit (5pds.)	Panchayati raj system, features of federalism; Overlapping and cross cutting, social divisions; Rise of nationalism in Europe; role of RBI, banks, cooperatives	To write a cheque Map work on major wheat and rice producing areas
AUGUST (21)	**Geo**. Chp.4Agriculture(5pds) Chp.5 Mineral Resources(6pds) **His.**Chp.2 Nationalism in India (10pds) **Eco.** Chp.4 Globalization(5pds) **Eco.** Ch. 5 Consumer Awareness(5pds)	Types of farming, cropping patterns in India Types of minerals found in India, sources of energy; Non- cooperation, civil disobedience, Quit India movt.; challenges, factors, impact of globalisation	Map practise from the Ch 5 geography Map skills on the centres of Indian national movement

SEPTEMBER (20)	**Pol. Sc.**Chp.4 Gender, Religion and Caste(5pds) **Revision**	Communalism, castiesm, secularism.	Political cartoons
TERM II			
OCTOBER (15)	**Geography**Chp.6 Manufacturing Industries(5pds) Chp.7 Lifelines of the Indian Economy(5pds) Ch 5 Popular struggles & movements- <u>Only for Periodic test</u> **His.** Ch. The making of a global world (10 pds.)	Classification and contribution of industries, Industrial pollution and environmental degradation; means of transport, communication, intl. trade and tourism Pre- modern world, the 19th century, inter -war economy, the post war era.	Map skills from Geography chapters 1.Airports, seaports 2. cotton, woollen, iron and steel,industries.
NOVEMBER (20)	Ch. The making of a global world of History to be continued...(2) **His.** Ch7.Print culture & the modern world (10 pds.) **Pol. Sc.** Chp.6 Political parties(5pds) Chp.7 Outcomes of Democracy(2pds) Chp.8 Challenges to Democracy(2pds)- <u>Only for Periodic test</u>	Print & censorship, Print revolution & its impact, reading mania, India & the world of print; Party systems, national and regional parties, challenges faced by political parties and its reforms	Documentary on America- Vietnam war to be shown.
DECEMBER (18)	PRE-BOARD I EXAMINATION		
JANUARY (15)	PRE-BOARD II EXAMINATION		