

**NEW ERA PUBLIC SCHOOL
ENGLISH SYLLABUS
CLASS X (2016-2017)**

| <i>TERM I</i> | | | | |
|-------------------------|--|---|---|---|
| <i>MONTH</i> | <i>MAIN COURSE BOOK</i> | <i>LITERATURE READER</i> | <i>WORKBOOK</i> | <i>WRITING SKILLS</i> |
| <i>APRIL</i> | UNIT I HEALTH AND MEDICINE | * TWO GENTLEMEN OF VERONA *MIRROR | DETERMINERS TENSES | EMAIL INFORMAL LETTER DIARY ENTRY |
| <i>MAY</i> | UNIT II EDUCATION | * THE FROG AND THE NIGHTINGALE | SUBJECT -VERB AGREEMENT NON FINITES | BIOSKETCH FORMAL LETTER ARTICLE WRITING |
| <i>JULY</i> | | *MRS PACKLETIDE'S TIGER * THE LETTER | RELATIVES CONNECTORS THE PASSIVE | FORMAL LETTER STORY WRITING PARAGRAPH WRITING |
| <i>AUGUST</i> | UNIT III SCIENCE | * THE DEAR DEPARTED | CONDITIONALS COMPARISON | FACTUAL DESCRIPTION SPEECH WRITING DEBATE |
| <i>SEPTEMBER</i> | REVISION | * NOT MARBLE , NOR THE GILDED MONUMENT | REPORTED SPEECH | MESSAGE WRITING NOTICE WRITING |
| | | <i>SA I EXAM</i> | | |
| | | <i>TERM II</i> | | |
| <i>OCTOBER</i> | UNIT IV ENVIRONME NT | * A SHADY PLOT * OZYMANDIAS | MODALS | FORMAL LETTER (REVISION) |
| <i>NOVEMBER</i> | UNIT V TRAVEL AND TOURISM | * JULIUS CAESAR | NOMINALIZATION | NEWSPAPER REPORT |
| <i>DECEMBER</i> | | * RIME OF THE ANCIENT MARINER | AVOIDING REPETITION | ARTICLE WRITING (REVISION) |
| <i>JANUARY</i> | UNIT VI NATIONAL INTEGRATIO N | * SNAKE * VIRTUALLY TRUE | JUMBLED SENTENCES | STORY WRITING (REVISION) |
| <i>FEBRUARY</i> | REVISION | * PATOL BABU | EDITING OMISSION PREPOSITIONS | REVISION |
| | | <i>SA II EXAM</i> | | |

FORMATIVE ASSESSMENT ACTIVITIES

| ASSESSMENT | INDIVIDUAL ACTIVITY (10) | GROUP ACTIVITY (10) | PEN PAPER TEST (10) |
|--------------------------------|-------------------------------------|--------------------------------|--------------------------------|
| FA I (APRIL – JULY) | HOLIDAY HOMEWORK | NEWS BULLETIN | COMPREHENSION |
| FA II (AUG – SEPT) | NOTEBOOKS | ADVERTISEMENT ENACTMENT | UNIT TEST I |
| FA III (OCT – DEC) | POSTER DESIGNING | ROLE PLAY | UNIT TEST II |
| FA IV (JAN – FEB) | STORY NARRATION | PROJECT | ASSIGNMENT |

NEW ERA PUBLIC SCHOOL
MATHEMATICS SYLLABUS
CLASS X (2016-17)

PRESCRIBED BOOKS :

1.MATHEMATICS FOR CLASS X- NCERT

2.LAB MANUAL FOR CLASS X -CBSE

| S.N. | 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 |
| | | ACTIVITY (i) | Graph of pair of linear equations in two variables |
| 2 | JUNE / JULY | CH- 3 PAIR OF LINEAR EQUATIONS IN TWO VARIABLES | - Cross Multiplication Method Application of Linear equations (Word Problems) |
| | | 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 |

| S.N. | MONTH | TOPIC | SUB TOPIC |
|------|-------|---|--|
| | | CH- 8 INTRODUCTION TO TRIGONOMETRY | Trigonometric ratios Trigonometric ratios of specific angles ($0^\circ, 30^\circ, 45^\circ, 60^\circ$ and 90°) |
| | | ACTIVITY (ii) (iii) | BPT Area ratio theorem |
| 3 | AUG | CH- 8 INTRODUCTION TO TRIGONOMETRY | Trigonometric ratios of complementary angles Combination questions on specific and complementary angles Trigonometric identities |
| | | CH -14 STATISTICS | Mean of grouped data Median of grouped data Mode of grouped data Graphical representation of Cumulative Frequency Distribution(Ogives) |
| | | ACTIVITY (iv) (v) | Pythagoras theorem To find the relation of sides of special right triangles (a) When the base angle is 30° (b) When the base angle is 60° |
| 4 | SEP | CH - 4 QUADRATIC EQUATIONS | Introduction - Solution of a quadratic equation by factorisation Revision For First Term |
| 5 | OCT | CH - 4 QUADRATIC EQUATIONS | Solution of a quadratic equation by - Completing square method - Quadratic Formula Nature of roots Applications of quadratic equations (Word Problems) |
| | | CH -5 ARITHMETIC PROGRESSIONS | Introduction Formula for nth term of an AP and word problems Sum of first n terms of an AP |
| | | ACTIVITY (vi) (vii) | To verify that given series is AP or not. Sum of n terms of an AP. |
| 6 | NOV | CH -5 ARITHMETIC PROGRESSIONS | Applications of sum of n terms of an AP |

| S.N. | MONTH | TOPIC | SUB TOPIC |
|------|-------|---|---|
| | | CH-8 COORDINATE GEOMETRY | Introduction Distance formula Section formula Area of a triangle |
| | | CH - 10 CIRCLES | Concept of tangents Theorems Applications of theorems on tangents |
| | | CH-11 CONSTRUCTIONS | Division of a line segment Construction of similar triangle |
| | | | Construction of tangents to a circle |
| | | ACTIVITY(viii) | Tangents from an external point |
| 7 | DEC | 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 |
| | | CH-9 APPLICATION OF TRIGONOMETRY | Introduction Angles of elevation and depression Heights and Distances (Word Problems) |
| | | ACTIVITY (ix) | Total surface area of a right circular cylinder |
| | | (x) | Curved surface area of a right circular cone |
| 8 | JAN | 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) |
| 9 | FEB | CH- 15 PROBABILITY | Introduction Problems on single events Problems based on throw of a die, tossing a coin and playing cards etc. Revision for second term |

FORMATIVE ASSESSMENT ACTIVITIES

| ASSESSMENT | INDIVIDUAL(10) | GROUP(10) | PEN-PAPER TEST(10) |
|-------------------|--|----------------------------------|---------------------------|
| FA1 | Holiday homework + Notebooks | Crossword | MCQ |
| FA2 | Practical Test and Practical File | Identify the figure | First Weekly Test |
| FA3 | Notebooks + Activity on Quadratic Equation | Activity on Co-ordinate Geometry | MCQ |
| FA4 | Practical Test and Practical File | Project on Probability | Second Weekly Test |

NEW ERA PUBLIC SCHOOL
SCIENCE SYLLABUS
CLASS – X (2016 – 17)

| Month/ Days | Chapter | Scope/subtopics | Activity | Practicals |
|-----------------------|---|---|---|--|
| April (17) | Chemical Reactions | Writing & balancing equations, implications of a balanced chemical equation, types of chemical reactions like combination, decomposition, displacement, double displacement, neutralization, and 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. |
| May (14) | Nutrition (Life Processes) | Basic concept of autotrophic, heterotrophic nutrition, saprophytic and parasitic nutrition, photosynthesis in plants, nutrition in amoeba and man. | | 3) To find the pH of HCl, NaOH, CH ₃ COOH, Water & Na ₂ CO ₃ solution. |
| | Respiration (Life Processes) | Aerobic & anaerobic respiration, respiratory pathways, respiration in man. | | 4) To study the properties of acids & bases. |
| June/July (4 / 21) | 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. | To test acids & bases with indicators | 5) To show that CO ₂ is given out during respiration. |
| | 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. | 6) To show that light is necessary for photo-Synthesis. |
| | Transportation & Excretion (Life Processes) | 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. | | 7) Verifying Ohm's law. 8) To determine equivalent resistance in series. |

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|----------------|-------------------------------------|--|--|---|
| August (21) | Magnetic Effects 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. D.C. | To show solenoid as an electro-magnet. To show electro-magnetic induction | 9) Determining equivalent resistance in parallel. |
| | Metals & Non-metals | Properties of metals & non-metals, reactivity series, formation & properties of ionic compounds, basic metallurgical processes, corrosion & its prevention. | To show metals like Fe, Al, Mg, Cu, Zn and non-metals like S, C etc | 10) To observe the action of Zn, Fe, Cu & Al on their salt solution & make their reactivity series. |
| | Control & Coordination | Human nervous system, human brain, reflex action, plant hormones, animal hormones. Tropic and Nastic movements in plants. | To identify Endocrine glands in the figure. | |
| September (22) | Sources of Energy | Renewable and non-renewable forms of energy. Conventional & non conventional sources of energy, fossil fuels, solar, biogas, wind, tidal & nuclear energy. | | Practical exam |
| October (15) | 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 | 1) To study binary fission in amoeba & budding in yeast |
| | Reproduction | Asexual & sexual reproduction in plants & animals, Sexual reproduction in humans, reproductive health, family planning, AIDS, child bearing & women's health. | Growing mould on bread. | 2) To identify the different parts of embryo of dicot seed |
| November (21) | 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. | To observe shapes of convex and concave mirrors & lenses. | 3) To study cleansing capacity of soap in hard & soft water |
| December (18) | Carbon & its compounds | Covalent bonds, versatile nature of carbon, homologous series, nomenclature, chemical properties, | | 4) To determine the focal length of concave mirror, Convex lens |

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| January (16) | Human Eye | ethanol, ethanoic acid, soaps & detergents. 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. | 5) To study the properties of acetic acid. |
| | 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 & di-hybrid crosses. | 6) To trace the path of light through a glass slab. 7) To trace the path of light thro' prism 8) To draw ray diagrams for objects at various positions. |
| | 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 | 9) To study homologous, analogous organs. 10) To study saponification reaction for preparation of soap. |
| February (19) | 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. | Practical exam |

FORMATIVE ASSESSMENT

| Assessment | Individual Activity (10) | Group Activity (10) | Pen Paper Test (10) |
|-------------------|---|---|----------------------------|
| FA I | Project on 'Air Pollution' | PPT on 'Improvement of Air Quality in Major Cities of Various Continents' | First Weekly Test |
| FA II | SA – I Practical Exam | MCQ Activity | C.W and H.W |
| FA III | Demonstration of an Activity on the II Term Science Concepts. | Café Conversation on 'Management of Natural Resources' | Second Weekly Test |
| FA IV | SA – II Practical Exam | MCQ Activity | C.W and H.W |

**NEW ERA PUBLIC SCHOOL
SOCIAL SCIENCE SYLLABUS
CLASS- X (2016-17)**

| Months | History | Geography | Political Science | Economics |
|---------------|-------------------------------------|--|---|----------------------------------|
| April | | Chp.1 Resources | Chp.1 Power Sharing | Chp.1 The story of Development |
| May + June | | Chp.2 Forest and Wildlife Chp.3 Water Resources | Chp.2 Federalism Chp.3 Democracy and Diversity | |
| July | Chp.5 Work, Life and Leisure | | Chp.4 Gender Religion and Caste | Chp.2 The role of Service Sector |
| Aug | Chp.8 History of Novels | Chp.4 Agriculture | | |
| Sept | Remaining periods for SA 1 Revision | | | |
| Oct | | Chp.5 Mineral Resources | Chp.5 Popular struggles and movements | |
| Nov | Chp.2 Nationalism in Indo China | | Chp.6 Political parties | Chp.3 Money and credit |
| Dec | Chp.3 Nationalism in India | Chp.6 Manufacturing Industries | | |
| Jan | | Chp.7 Lifelines of the Indian Economy | Chp.7 Outcomes of Democracy | Chp.4 Globalization |
| Feb | Remaining periods for SA2 Revision | | Chp.8 Challenges of Democracy | Chp.5 Consumer Awareness |

Formative Assessment Activities

| Assessment | Individual Activity (10) | Group Activity (10) | Pen & Paper Test (10) |
|-------------------|-------------------------------------|---|---|
| FA1 | CBSE Project | Case study on “Is democracy leading to anarchy?” | Map Test |
| FA2 | C.W/H.W Assignment | Poster making (on any social issue or any relevant topic) | Unit Test 1 (20 marks reduced to 10) |
| FA 3 | Speeches of Leaders of the World | PPT (Any Chapter of 2nd term) | Open Book Test |
| FA4 | C.W/H.W Assignment | Cafe Conversation | Unit Test 2 (20 marks reduced to 10) |

हिन्दी पाठ्यक्रम (2016-2017)

कक्षा दसवीं (विषय हिन्दी)

| माह | गद्य - स्पर्श | पद्य- स्पर्श | संचयन | व्याकरण |
|-----------|--|------------------------|------------|---|
| अप्रैल मई | बड़े भाईसाहब | साखी पद | | 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 | डायरी का एक पन्ना तताँरा वामीरो कथा | पर्वत प्रदेश में पावस | हरिहर काका | पत्र लेखन, अशुद्ध वाक्यों को शुद्ध करना, विज्ञापन लेखन, समास अभ्यास, सूचना लेखन, अनुच्छेद लेखन, अपठित पद्यांश |
| अगस्त | तीसरी कसम के शिल्पकार शैलेन्द्र | तोप | | संवाद लेखन, पत्र लेखन, मुहावरे, समास अभ्यास, विज्ञापन लेखन, सूचना लेखन |
| सितम्बर | | मनुष्यता | | समास, लोकोक्तियाँ, अनुच्छेद, पत्रलेखन, अपठित गद्यांश |
| अक्टूबर | गिरगिट | मधुर-मधुर मेरे दीपक जल | | अपठित पद्यांश, अनुच्छेद, पत्र लेखन, मुहावरे व लोकोक्तियाँ, विज्ञापन लेखन, संवाद लेखन |

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| नवम्बर | अब कहीं दूसरों के दुख से दुखी होने वाले | दोहे | सपनों के से दिन | पत्र लेखन ,विज्ञापन लेखन, अपठित गद्यांश, सूचनालेखन |
| दिसम्बर | पतझर में टूटी पत्तियाँ | | टोपी शुक्ला | मुहावरे व लोकोक्तियाँ, अशुद्ध वाक्यों को शुद्ध करना, सूचना लेखन, विज्ञापन लेखन ,संवाद लेखन, समास अभ्यास, पत्र लेखन ,शब्द और पद में अंतर |
| जनवरी | | कर चले हम फिदा | | अपठित पद्यांश, मिश्रित व संयुक्त वाक्य संरचना, रूपांतरण, अनुच्छेद लेखन , पत्र लेखन, अशुद्ध वाक्यों को शुद्ध करना, समास अभ्यास, विज्ञापन लेखन |
| फरवरी | कारतूस | आत्मत्राण | | विज्ञापन लेखन , सूचना लेखन , संवादलेखन अशुद्ध वाक्यों को शुद्ध करना, शब्द और पद में अंतर, पुनरावृत्ति |
| | | | | |

विषय...हिन्दी (एफ. ए. गतिविधियाँ)

कक्षा ... दसवीं (2016-2017)

एफ. ए. 1

- ❖ व्यक्तिगत कार्य.....ग्रीष्मावकाश गृहकार्य
- ❖ लिखित कार्य.....अभ्यास पत्र
- ❖ सामूहिक कार्य.....नाट्य मंचन

(बड़े भाई साहब)

एफ. ए. 2

- ❖ व्यक्तिगत कार्य..... पात्र अभिनय
(देशभक्तों के चरित्र पर आधारित)
- ❖ लिखित कार्य..... साप्ताहिक परीक्षा 1
- ❖ सामूहिक कार्य..... परियोजना कार्य

(भारत की ऋतुएँ)

एफ. ए. 3

- ❖ व्यक्तिगत कार्य.....वाद-विवाद
(वैज्ञानिक उपकरण प्रदूषण का कारक)
- ❖ लिखित कार्य..... साप्ताहिक परीक्षा 2
- ❖ सामूहिक कार्य.....समूह परिचर्चा
(तनाव : कारण व निवारण)

एफ. ए. 4

- ❖ व्यक्तिगत कार्य.....स्वरचित कविता
(लेखन व वाचन)
- ❖ लिखित कार्य..... कहानी लेखन
(चित्र के आधार पर)
- ❖ सामूहिक कार्य.....परियोजना कार्य
(भारतीय सेना : जल, थल, वायु)