

NEW ERA PUBLIC SCHOOL
English Syllabus (2017-18)
Class IX

MONTH	MAIN COURSE BOOK	LITERATURE READER	WORKBOOK (GRAMMAR)	WRITING SKILLS	THREE MEN IN A BOAT
APRIL	UNIT 1 PEOPLE	* HOW I TAUGHT MY GRANDMOTHER TO READ *THE BROOK	* <i>DETERMINERS</i>	* DIARY ENTRY	CHAPTER 1-2
MAY	UNIT II ADVENTURE	* THE ROAD NOT TAKEN	*VERB FORMS *SUBJECT - VERB CONCORD		CHAPTER 3-4
JULY	UNIT III ENVIRONMENT	* A DOG NAMED DUKE * THE SOLITARY REAPER	* FUTURE TIME REFERENCE	*ARTICLE WRITING	CHAPTER 5-6
AUGUST		* LORD ULLIN'S DAUGHTER * VILLA FOR SALE	* <i>THE PASSIVE</i> * <i>PREPOSITIONS</i>	* STORY WRITING (USING CUE/S)	CHAPTER 7-8
SEPTEMBER			* REPORTED SPEECH		CHAPTER 9
OCTOBER	UNIT IV RADIO SHOW	* THE MAN WHO KNEW TOO MUCH		*DIARY ENTRY	CHAPTER 10-11

NOVEMBER	UNIT V MYSTERY	* THE SEVEN AGES * OH, I WISH I'D LOOKED AFTER ME TEETH	*CLAUSES	*ARTICLE WRITING	CHAPTER 12-13
DECEMBER	UNIT VI CHILDREN	* KEEPING IT FROM HAROLD	* <i>MODALS</i>	* STORY WRITING (BASED ON A GIVEN OUTLINE)	CHAPTER 14-15
JANUARY	UNIT VII SPORTS & GAMES	* SONG OF THE RAIN * BEST SELLER	*CONNECTORS		CHAPTER 16-17
FEBRUARY		* THE BISHOP'S CANDLESTICKS			CHAPTER 18-19

NOTE : THE ITALICISED GRAMMAR TOPICS MAY BE TESTED THROUGH GAP FILLING; EDITING OR OMISSION; SENTENCE REORDERING OR SENTENCE TRANSFORMATION

PRESCRIBED NOVEL : RACHNA SAGAR- TOGETHER WITH- THREE MEN IN A BOAT - BY JEROME K. JEROME

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

S. No.	MONTH	TOPIC	SUBTOPIC
1	APRIL	Ch – 1 NUMBER SYSTEM Ch – 6 LINES AND ANGLES	Introduction Irrational numbers Real Numbers and their decimal expansion Representing real numbers on the number Line Operations on real numbers Laws of exponents Basic terms and definitions Intersecting and non – intersecting lines Pair of angles
2	MAY	Ch – 6 LINES AND ANGLES Ch – 12 HERON'S FORMULA Ch – 5 INTRODUCTION TO EUCLID'S GEOMETRY Activity	Parallel lines and a transversal Lines parallel to the same lines Angle sum property of triangle and Exterior angle property Introduction Area of triangle by Heron's formula Application of Heron's formula in finding area of quadrilaterals. Introduction Euclid's definitions, axioms and postulates Equivalent version of Euclid's fifth postulate (i) Corresponding angles (ii) Co interior angles
3	JUNE / JULY	Ch – 2 POLYNOMIALS Ch – 7 TRIANGLES	Polynomials in one variable Zeroes of a polynomial Remainder theorem Factor theorem Factorization of polynomials Algebraic identities Introduction Congruence of triangles Criteria for congruence of triangles (SAS, ASA) Properties of triangles Congruence of triangles (SSS, RHS) Inequalities in a triangle
		Activity	(iii) Verification of algebraic identity $(a + b + c)^2$ (iv) Verification of algebraic identity
4	AUGUST	CH – 8 QUADRILATERALS	Angle sum property of a quadrilateral Types of quadrilaterals Properties of a parallelogram Conditions for a quadrilateral to be a parallelogram Midpoint theorem Application of mid-point theorem

		<p>Ch – 11 CONSTRUCTIONS</p> <p>Activity</p>	<p>Converse of mid-point theorem and its application</p> <p>Basic constructions (constructions of angles 30°, 60°, 45°, 90°, 120°, 135°, 75°, 105°)</p> <p>Perpendicular bisector and angle bisector</p> <p>Construction of triangles :</p> <p>(i) Given base, a base angle, sum / difference of other two sides</p> <p>(ii) Given its perimeter and the two base angles</p> <p>(v) Angles opposite to equal sides of a triangle are equal.</p>
5	SEP		Revision for first term
6	OCT	<p>Ch – 3 COORDINATE GEOMETRY</p> <p>Ch – 4 LINEAR EQUATIONS IN TWO VARIABLES</p> <p>Activity</p>	<p>Introduction</p> <p>Cartesian system</p> <p>Plotting points on a Cartesian plane and related questions</p> <p>Introduction</p> <p>Linear equations in two variables</p> <p>Solutions to a linear equation in two variables</p> <p>Graph of a linear equations in two variables</p> <p>Equations of lines parallel to x and y axes</p> <p>(vi) Midpoint theorem</p> <p>(vii) Parallelograms on the same base and between same parallels</p>
7	NOV	<p>Ch – 13 SURFACE AREAS AND VOLUMES</p> <p>Ch – 10 CIRCLES</p> <p>Activity</p>	<p>Surface area of cube, cuboid, right circular Cylinder, cone, sphere and hemisphere</p> <p>Volume of cube, cuboid and right circular cylinder, right circular cone, sphere and hemisphere.</p> <p>Circles and relates terms</p> <p>Angles subtended by a chord at the centre</p> <p>(viii) Angles subtended by equal chords of a circle.</p>
8	DEC	<p>Ch – 10 CIRCLES</p> <p>Ch – 9 AREAS OF PARALELOGRAMS AND TRIANGLES</p> <p>Activity</p>	<p>Perpendicular from the centre to the chord</p> <p>Circle through three points</p> <p>Equal chords and their distance from the centre</p> <p>Angles subtended by an arc of a circle</p> <p>Cyclic quadrilaterals</p> <p>Figures on the same base and between same parallels</p> <p>Parallelograms on the same base and between same parallels</p> <p>Triangles on the same base and between same parallels</p> <p>(ix) Opposite angles of a cyclic quadrilateral are supplementary</p> <p>(x) Degree measure theorem</p>

9	JAN	Ch – 14 STATISTICS Ch – 15 PROBABILITY	Collection and presentation of data Graphical representation of data (Bar graph, histogram and frequency polygon) Measures of central tendency (mean, median and mode) Introduction Probability – an experimental approach Application of probability
10	FEB		Revision for Second Term

NEW ERA PUBLIC SCHOOL
Science Syllabus (2017-2018)
Class –IX

Month	Chapter number & name	Sub topics	Activities	Practicals
April	1. Matter around us.	Definition of matter, solid, liquid and gas; characteristics –shape, volume, density; change of state-melting (absorption of heat), freezing, evaporation (cooling by evaporation), condensation, sublimation.	Solubility of $KMnO_4$ in water Compressibility of solids liquids and gases.	1. Study of physical and chemical changes. 2.Determine % of water absorbed by raisins
	8.Motion	Motion, distance and displacement, velocity; uniform and non-uniform motion ,acceleration, distance-time and velocity-time graphs for uniform motion and uniform accelerated motion, equations of motion by graphical method; elementary idea of uniform circular motion	Activity 8.11 on circular motion	
May	5.The fundamental unit of life	Cell- basic unit of life: prokaryotic and eukaryotic cell, multi-cellular organisms; cell membrane and cell wall, cell organelles; chloroplast, mitochondria, vacuoles, endoplasmic reticulum, Golgi apparatus, nucleus, chromosome- basic structure and number.	Study of compound microscope.	3.Determine the BP and MP of water 4. Prepare and study slides of onion peel and cheek cells.
	2. Is matter around us pure?	Elements, compounds and mixtures, heterogeneous and homogenous mixtures, colloids and suspensions, separation of mixtures, physical and chemical changes, elements mixtures and compounds.	Separation of dyes in ink.	5. Study of colloids solutions and suspensions. 6. Prepare and study a compound and a mixture.
June & July	9. Force and laws of motion	Force and motion, Newton's laws of motion, inertia of a body, inertia and mass, momentum, force and acceleration , elementary	Activity (9.2) based on inertia.	7. Separation of mixtures. 8.study third law of motion

	6.Tissues	idea of conservation of momentum, action and reaction forces. 6. Tissues, organs, organ system, organism. Structure and functions of plant and animal tissues (four types in animals) meristematic and permanent tissues.	Slides of different tissues	9. Identify and study plant and animal tissues. 10. Density of a solid.
Aug & Sept.	10.Gravitation 15.Improvement in food resources	7. Gravitation, universal law of gravitation, acceleration due to gravity, mass and weight, free fall. Thrust and pressure Archimedes Principle, Buoyancy, elementary idea of relative density 8. Plant and animal breeding and selection for quality improvement and management; use of manure and fertilizers, protection from pests and diseases; organic farming; animal husbandry; poultry farming; pisciculture; apiculture.	NCERT Act 10.1 (based on centrifugal and centripetal forces) 10.3 Act(based on gravitation) Act (10.6) based on Archimedes Principle. Bring samples of cereals and pulses.	11. Test the presence of starch and adulterant in food. 12. Pressure exerted by a cuboid. 13. Loss of weight in tap water and salt water. 14. Verify law of conservation of mass.
Oct	3.Atoms and molecules. 11.Work and energy.	Laws of conservation of mass, chemical formula of common compounds & constant proportion, atomic and molecular mass, valency and mole concept. Work done by force, energy, power, potential and kinetic energy, law of conservation of energy, transformation of energy.	Activity(11.4) based on positive and negative work(inference). Activity(11.9) with a slinky to show potential energy.	
Nov	7.Biological diversity.	Diversity of plants and animals- scientific naming, basis of classification, Hierarchy of groups, major groups of plants-bacteria, thallophyta , bryophyta , pteridophyta, gymnosperms and angiosperms. Major groups of animals- non-chordates up to phyla and chordates up to classes.	Find scientific names of 10 common plants and animals.	15. Study of plants specimens. 16. Study of animal specimens. 17. Study of dicot and monocot plant. 18. Life cycle of mosquito.

	4.Structure of atom.	Electrons, protons and neutrons; structure of atom- Thomson's, Rutherford's, Bohrs'-model, valency, at. no., at. mass, isotopes and isobars.	Activity(4.2) based on electronic configuration.	
Dec	13.Why do we fall ill? 12.Sound	Personal & community health, diseases & its causes, infectious diseases, means of spread, principles of treatment & prevention. Nature of sound, propagation, speed of sound, range of hearing in humans, ultrasound, echo, sonar.	Act(12.1) with a tuning fork to demonstrate production of sound.(observation) Act(12.4) with slinky to demonstrate longitudinal waves (demonstration) Act(14.2)to demonstrate movement of air from high pressure to low pressure.	19. Reflection of sound. 20. Velocity of pulse.
Jan	14.Natural resources.	Air, water, soil, Air for respiration, combustion for moderating temperatures, movements of air and its role in bringing rains across India. Pollution-air, water and soil ,ozone layer, biogeochemical cycles- water, oxygen, carbon and nitrogen.		

NEW ERA PUBLIC SCHOOL
Social Science Syllabus (2017-18)
Class- IX

Month	Chapter No.	Name of the chapter
April	1. Geo: Ch-1 2. Geo: Ch-2 3. Hist: Ch-1	1. India -Size and Location 2. Physical Features of India 3. The French Revolution
May	4. Pol Sc: Ch-2 5.Eco: Ch-1	4. What is Democracy? Why Democracy? 5. The Story of Village Palampur
June + July	6. Hist: Ch-2 7. Geo.: Ch-3 8. Pol.Sc: Ch-3	6. Socialism in Europe and the Russian Revolution 7. Drainage 8. Constitutional Design
August	9. Eco: Ch-2 10.Pol Sc: Ch-4	9. People as Resource 10.Electoral Politics
September	Revision of SA - 1 Exams	
October	11.Geo : Ch- 4 12.Hist : Ch- 3	11. Climate 12. Nazism and the Rise of Hitler
November	13. Pol Sc: Ch-5 14.Eco : Ch-3	13.Working of Institutions 14.Poverty as a Challenge
December	15. Hist: Ch-8 16..Eco : Ch-4	15. Forest Society & Colonialism 16. Food Security in India
January	17. Geo : Ch-5 18.Geo : Ch-6	17. Natural Vegetation & Wildlife 18. Population
February	19. Pol Sc: Ch-6	19. Democratic Rights

Subject – Social Science Map Syllabus (2017- 2018)

Term – 1 (April- September)

History	Geography
<p><u>Chapter-1 The French Revolution</u></p> <p>Outline map of France</p> <ul style="list-style-type: none">• Paris• Bordeaux• Nantes• Marseilles <p><u>Chapter 2- Socialism in Europe & Russian Revolution</u></p> <p><u>Labelling & Locating/ Identification</u></p> <p>Outline Map of the World</p> <ul style="list-style-type: none">• Major countries of First World War (Central & Allied Powers)• Central Powers- Germany, Austria- Hungary, Turkey (Ottoman Empire)• Allied Powers – France, England, America (Russia)	<p>Chp- 1 India- Size and location</p> <p><u>For locating and labelling:</u> Indian- States with Capitals ,Tropic of Cancer, Standard Meridian of India, Northern most , Southern most , Eastern most , Western most Point of India.</p> <p>Chp- 2 Physical features of India</p> <p><u>For locating& labelling:</u> (i) Mountain peaks: K2, Kanchenjunga and Anai Mudi. (ii) Plateau : Deccan Plateau, Chotta Nagpur Plateau, Malwa Plateau. (iii) Coastal plains: Konkan, Malabar,Coromandal& Northern Circar. (iv) Mountain Ranges: The Korakoram, The Zasker, The Shivalik, The Aravali, The Vindhya, The Satpura, Western Ghats & The Eastern Ghats</p> <p>Chp- 3 Drainage</p> <p><u>For Identification only :</u> (i) Lakes: Chilika, Pulicat, Kolleru, Vembanad, Sambhar and Wular (ii) The Himalayan River System: The Indus, The Ganges, and The Satluj (iii) The Peninsular Rivers : The Narmada, The Tapi, The Mahanadi, The Godavari, The Krishna and The Kaveri</p>

Term -2 (October- February)

History	Geography
<p data-bbox="71 310 613 344"><u>Chapter 3 Nazism & the Rise OF Hitler</u></p> <p data-bbox="71 382 568 415"><u>Locating & Labelling/ Identification</u></p> <p data-bbox="71 457 402 491">Outline map of the World</p> <ul data-bbox="120 495 750 827" style="list-style-type: none">• Major countries of the Second World War• Axis Powers – Germany, Italy , Japan• Allied Powers –UK, France, Former USSR, USA• Territories under German Expansion(Nazi Power) Austria, Poland, Denmark, Lithuania, France, Belgium ,Czechoslovakia(Only Slovakia shown in the Map) <p data-bbox="71 869 652 903"><u>Chapter- 4 Forest Society and Colonialism</u></p> <p data-bbox="71 945 727 1045">Chhattisgarh, Dehradun, Assam, Andhra Pradesh, Gujarat, Chennai, Bastar., Maharashtra, Jharkhand, Odisha and River Indravati.</p>	<p data-bbox="786 310 1055 344"><u>Chapter- 4 Climate</u></p> <p data-bbox="786 382 1127 415"><u>For location & labelling:</u></p> <p data-bbox="786 420 1448 525">Cities- Thiruvananthapuram, Chennai, Jodhpur, Bangalore, Mumbai, Kolkata, Leh, Shillong, Delhi, Nagpur.</p> <p data-bbox="786 567 1042 600"><u>Identification only</u></p> <p data-bbox="786 604 1490 667">(ii) Areas receiving rainfall less than 20cm & over 400 cm</p> <p data-bbox="786 709 1370 743"><u>Chapter-5 Natural vegetation and wild life</u></p> <p data-bbox="786 785 1117 819"><u>For locating & labeling:</u></p> <ul data-bbox="834 823 1523 1045" style="list-style-type: none">• National parks: Corbett, Kaziranga, Ranthambor, Shivpuri, Kanha, Simlipal, & Manas• Wild life sanctuaries: Sariska, Mudumalai, Rajaji , Dachigam• Bird Santuaries : Bhartpur & Ranganthitto <p data-bbox="786 1050 1039 1083"><u>For identification:</u></p> <p data-bbox="786 1087 1484 1192">Forest Zones: Tropical Evergreen Forests, Tropical Thorn Forests, Mangrove Forests, Tropical Deciduous Forests, Montane Forests</p> <p data-bbox="786 1234 1088 1302"><u>Chapter-6 Population Labelling & Locating</u></p> <ul data-bbox="834 1344 1500 1486" style="list-style-type: none">• The State having highest and lowest sex ratio,• Largest & Smallest state according to area.• The States having highest and lowest density of population

न्यू इरा पब्लिक स्कूल
पाठ्यक्रम 2017-2018
कक्षा - नवीं
प्रथम-सत्र

अप्रैल-मई

साहित्य- 1. धूल 2. रैदास के पद 3- गिल्लू

भाषा- वर्ण-विच्छेद, 'र' के विभिन्न रूप, अनुस्वार, अनुनासिक, नुक्ता, उपसर्ग, प्रत्यय, पत्र-लेखन, अनुच्छेद-लेखन, चित्र-वर्णन, विज्ञापन लेखन, अशुद्धि-शोधन, अपठित-पद्यांश, अपठित-गद्यांश, संवाद-लेखन।

जून-जुलाई

साहित्य- 1. रहीम के दोहे 2. स्मृति 3. दुख का अधिकार

भाषा- अनुच्छेद-लेखन, चित्र-वर्णन, संवाद-लेखन, विराम-चिह्न, विज्ञापन-लेखन, स्वर संधि-अभ्यास।

अगस्त

साहित्य- 1. एवरेस्ट मेरी शिखर-यात्रा 2. आदमीनामा 3. कल्लू कुम्हार की उनाकोटी

भाषा- वर्ण-विच्छेद, अनुस्वार, अनुनासिक, नुक्ता का अभ्यास, अपठित-पद्यांश, पत्र (अनौपचारिक), विज्ञापन-लेखन, व्यंजन एवं विसर्ग संधि-अभ्यास, चित्र-वर्णन।

सितम्बर

साहित्य- 1. तुम कब जाओगे अतिथि

भाषा- संधि-अभ्यास, संवाद-लेखन, विज्ञापन-लेखन, पत्र-लेखन, अपठित-गद्यांश।

द्वितीय-सत्र

अक्तूबर

साहित्य-

1. एक फूल की चाह 2. मेरा छोटा सा निजी पुस्तकालय

भाषा-

चित्र-वर्णन, संवाद लेखन, पत्र-लेखन, विराम-चिह्न, विज्ञापन-लेखन।

नवम्बर

साहित्य-

1. कीचड़ का काव्य 2. गीत-अगीत

भाषा-

वर्ण-विच्छेद, उपसर्ग एवं प्रत्यय द्वारा शब्द निर्माण, विराम-चिह्नों का प्रयोग, अपठित-गद्यांश, संधि, विज्ञापन-लेखन।

दिसंबर

साहित्य-

1. वैज्ञानिक चेतना के वाहक-चंद्रशेखर वेंकट रामन् 2. अग्निपथ
3. हामिद खाँ

भाषा-

अपठित-गद्यांश, पत्र-लेखन, अनुच्छेद-लेखन, चित्र-वर्णन, विज्ञापन-लेखन।

जनवरी

साहित्य-

1. धर्म की आड़ 2. नए इलाके में 3. खुशबू रचते हैं हाथ

भाषा -

अनुच्छेद-लेखन, वर्ण-विच्छेद, संधि-अभ्यास, संवाद-लेखन, विज्ञापन-लेखन।

फरवरी

साहित्य-

1. शुक्रतारे के समान 2. दिए जल उठे

भाषा-

वर्ण-विच्छेद अभ्यास, उपसर्ग एवं प्रत्यय, पत्र-लेखन, अनुच्छेद-लेखन, अपठित-गद्यांश, संधि-अभ्यास।