

**NEW ERA PUBLIC SCHOOL  
ENGLISH SYLLABUS  
CLASS IX (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 PEOPLE	* HOW I TAUGHT MY GRANDMOTHER TO READ *THE BROOK	DETERMINERS	EMAIL FORMAL LETTER NOTICE WRITING
<i>MAY</i>	UNIT II ADVENTURE	* THE ROAD NOT TAKEN	VERB FORMS FUTURE TIME REFERENCE	DIARY ENTRY EMAIL ARTICLE WRITING
<i>JULY</i>	UNIT III ENVIRONMENT	* A DOG NAMED DUKE * THE SOLITARY REAPER	MODALS CONNECTORS	FORMAL LETTER STORY WRITING PARAGRAPH WRITING
<i>AUGUST</i>		* LORD ULLIN'S DAUGHTER * VILLA FOR SALE	THE PASSIVE PREPOSITIONS	BIO SKETCH DEBATE SPEECH WRITING
<i>SEPTEMBER</i>	REVISION	REVISION	REPORTED SPEECH	MESSAGE WRITING
		<i>SA I EXAM</i>		
<i>TERM II</i>				
<i>OCTOBER</i>	UNIT IV RADIO SHOW	* THE MAN WHO KNEW TOO MUCH	SUBJECT- VERB AGREEMENT	BOOK REVIEW
<i>NOVEMBER</i>	UNIT V MYSTERY	* THE SEVEN AGES * OH, I WISH I'D LOOKED AFTER ME TEETH	PROCESS WRITING (REVISION)	NEWSPAPER ARTICLE
<i>DECEMBER</i>	UNIT VI CHILDREN	* KEEPING IT FROM HAROLD	GAP FILLING EXERCISES	DIALOGUE WRITING
<i>JANUARY</i>	UNIT VII SPORTS & GAMES	* SONG OF THE RAIN * BEST SELLER	JUMBLED SENTENCES	NEWSPAPER REPORT
<i>FEBRUARY</i>	REVISION	* THE BISHOP'S CANDLESTICKS	EDITING OMISSION	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	PEER TEACHING	COMPREHENSION
FA II (AUG – SEPT)	NOTEBOOKS	DIALOGUE ENACTMENT	UNIT TEST I
FA III (OCT – DEC)	BOOK COVER	RADIO SHOW	UNIT TEST II
FA IV (JAN – FEB)	POSTER MAKING	ROLE PLAY	ASSIGNMENT

**NEW ERA PUBLIC SCHOOL  
MATHEMATICS SYLLABUS  
CLASS:IX(2016 – 17)**

**PRESCRIBED BOOKS:**

**1.MATHEMATICS FOR CLASS IX – NCERT**

**2.LAB MANUAL FOR CLASS IX - CBSE**

S.No.	MONTH	TOPIC	SUBTOPIC
1	APRIL/ MAY	<b>Ch-1 NUMBER SYSTEM</b>	Introduction Irrational numbers Real numbers and their decimal expansion Representing real numbers on the number line Operations on real numbers Laws of exponents
		<b>Ch-6 LINES AND ANGLES</b>	Basic terms and definitions Intersecting and non-intersecting lines Pair of angles Parallel lines and a transversal Lines parallel to the same lines Angle sum property of triangle and Exterior angle property
		<b>Ch-12 HERON'S FORMULA</b>	Introduction Area of triangle by Heron's formula Application of Heron's formula in finding area of quadrilaterals.
		Activity	(i) Corresponding angles (ii) Cointerior angles
2	JULY	<b>Ch-2 POLYNOMIALS</b>	Polynomials in one variable Zeroes of a polynomial Remainder theorem Factor theorem Factorization of polynomials Algebraic identities
		<b>Ch-7 TRIANGLES</b>	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 $(a^2 - b^2)$
3	AUGUST	<b>Ch-5 INTRODUCTION TO EUCLID'S GEOMETRY</b>	Introduction Euclid's definitions, axioms and postulates Equivalent version of Euclid's fifth postulate

S.No.	MONTH	TOPIC	SUBTOPIC
		<b>Ch-3</b> <b>COORDINATE</b> <b>GEOMETRY</b>	Introduction Cartesian system Plotting points on a Cartesian plane and related questions
		<b>Ch- 4</b> <b>LINEAR EQUATIONS IN</b> <b>TWO VARIABLES</b>	Introduction Linear equations in two variables Solutions to a linear equation in two variables Graph of a linear equations in two variables Equations of lines parallel to x and y axes
		<b>Ch-8</b> <b>QUADRILATERALS</b>	Angle sum property of a quadrilateral Types of quadrilaterals
		Activity	(v) Angles opposite to equal sides of a triangle are equal.
4	SEP	<b>Ch-8</b> <b>QUADRILATERALS</b>	Properties of a parallelogram  <b>Revision for first term</b>
5	OCT	<b>Ch-8</b> <b>QUADRILATERALS</b>	Conditions for a quadrilateral to be a parallelogram Midpoint theorem Application of mid-point theorem Converse of mid-point theorem and its application
		<b>Ch-9</b> <b>AREAS OF TRIANGLES</b> <b>AND PARALLELOGRAMS</b>	Figures on the same base and between same parallels Parallelograms on the same base and between same parallels
		Activity	(vi) Midpoint theorem
6	NOV	<b>Ch-9</b> <b>AREAS OF TRIANGLES</b> <b>AND PARALLELOGRAMS</b> <b>Ch- 13</b> <b>SURFACE AREAS AND</b> <b>VOLUMES</b>	Triangles on the same base and between same parallels  Surface area of cube, cuboid, right circular cylinder, cone, sphere and hemisphere Volume of cube, cuboid and right circular cylinder, right circular cone, sphere and hemisphere
		<b>Ch- 10</b> <b>CIRCLES</b>	Circles and related terms Angles subtended by a chord at the centre
		Activity	(vii) Parallelograms on the same base and between same parallels (viii) Angles subtended by equal chords of a circle
7	DEC	<b>Ch- 10</b> <b>CIRCLES</b>	Perpendicular from the centre to the chord Circle through three points Equal chords and their distance from the centre

S.No.	MONTH	TOPIC	SUBTOPIC
7	DEC	<b>Ch- 10 CIRCLES</b>	Angles subtended by an arc of a circle Cyclic quadrilaterals
		<b>Ch-11 CONSTRUCTIONS</b>	Basic constructions ( constructions of angles $30^\circ$ $60^\circ$ , $45^\circ$ , $90^\circ$ , $120^\circ$ , $135^\circ$ , $75^\circ$ , $105^\circ$ ) Perpendicular bisector and angle bisector
		Activity	(ix) Opposite angles of a cyclic quadrilateral are supplementary. (x) Degree measure theorem
8	JAN	<b>Ch-11 CONSTRUCTIONS</b>  <b>Ch-14 STATISTICS</b>	Construction of triangles: (i) Given base, a base angle, sum/difference of other two sides (ii) Given its perimeter and the two base angles  Collection and presentation of data Graphical representation of data ( Bar graph, histogram and frequency polygon) Measures of central tendency ( mean, median and mode)
9	FEB	<b>Ch -15 PROBABILITY</b>	Introduction Probability- an experimental approach Application of probability <b>Revision for second term</b>

## FORMATIVE ASSESSMENT ACTIVITIES

<b>ASSESSMENT</b>	<b>INDIVIDUAL(10)</b>	<b>GROUP(10)</b>	<b>PEN-PAPER TEST(10)</b>
<b>FA1</b>	Holiday homework + Notebooks	Crossword	MCQ
<b>FA2</b>	Practical Test and Practical File	Connect the dots	First Weekly Test
<b>FA3</b>	Notebooks + Accordion	Mathematical Magazine	MCQ
<b>FA4</b>	Practical Test and Practical File	Activity on Probability	Second Weekly Test

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

<b>Month /Days</b>	<b>Topic</b>	<b>Scope / Sub topics</b>	<b>Activities</b>	<b>Practicals</b>
April and May (17+14)	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.	1. Solubility of $\text{KMnO}_4$ in water 2.compressibility of solids liquids and gases.	1. Determine the B.P and M.P of water. 2. Study of physical and chemical changes. 3. Prepare and study slides of onion peel and cheek cells. 4.Determine % of water absorbed by raisins
	2.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	
	3.Cell	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.	
June and July (4+21)	4. Is matter around us pure	Elements, compounds and mixtures, heterogenous and homogenous mixtures, colloids and suspensions, separation of mixtures, physical and chemical changes, elements mixtures and compounds.	3. Separation of dyes in ink.	5. Study of colloids solutions and suspensions. 6. Prepare and study a compound and a mixture.
	5. 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 idea of conservation of momentum, action and re-action forces.	Activity (9.2) based on inertia.	7. Separation of mixtures. 8. Study third law of motion
	6.Tissues	Tissues, organs, organ system, organism. Structure and functions of plant and animal tissues(four		

		types in animals; meristematic and permanent tissues)		
August & September (21+22)	7.Gravitation  8.Improvement in food resources	Gravitation, universal law of gravitation, acceleration due to gravity, mass and weight, free fall.  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 activity 10.1(based on centrifugal and centripetal forces) and 10.3 Activity(based on gravitation)  Bring samples of cereals and pulses.	9. Identify and study plant and animal tissues. 10. Test the presence of starch and adulterant in food.
October (15)	Gravitation  Atoms and molecules	Thrust and pressure, Archimedes Principle, Buoyancy, elementary idea of relative density.  Laws of conservation of mass, chemical formula of common compounds&constant proportion, atomic and molecular mass, valency and mole concept.	Activity (10.6) based on Archimedes Principle.	1.Pressure exerted by a cuboid 2. Density of a solid. 3. Loss of weight in tap water and salt water. 4. Verify law of conservation of mass.
November (21)	Biological diversity  Work and energy	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.  Work done by force, energy, power, potential and kinetic energy, law of conservation of energy, transformation of energy.	Find scientific names of 10 common plants and animals.  Activity (11.4) based on positive and negative work (inference). Activity (11.9) with a slinky to show potential energy.	5. Study of plants specimens. 6. Study of animal specimens. 7. Study of dicot and monocot plant.



December (18)	Structure of atom  Why do we fall ill?	Electrons, protons and neutrons; structure of atom-Thomson's, Rutherford's, Bohrs'-model, valency, atomic number, atomic mass, isotopes and isobars.  Personal & community health, diseases & its causes, infectious diseases, means of spread, principles of treatment & prevention.	Activity (4.2) based on electronic configuration.	8. Life cycle of mosquito. 9. Reflection of sound. 10. Velocity of pulse.
January (16)	Sound  Natural resources	Nature of sound, propagation, speed of sound, range of hearing in humans, ultrasound, echo, sonar.  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.	1. Activity (12.1) with a tuning fork to demonstrate production of sound (observation) 2. Activity (12.4) with slinky to demonstrate longitudinal waves (demonstration) 3. Activity (14.2) to demonstrate movement of air from high pressure to low pressure.	
February (19)	Revision			

## FORMATIVE ASSESSMENT

<b>Assessment</b>	<b>Individual Activity (10)</b>	<b>Group Activity (10)</b>	<b>Pen Paper Test (10)</b>
FA I	Project on 'Air Pollution'	PPT on the 'Causes and Effects of Air Pollution'	First Weekly Test
FA II	SA – I Practical Exam	MCQ Activity	C.W and H.W
FA III	Demonstration of an Activity Based on the II Term Science Concepts	Visit to the Science Park	Second Weekly Test
FA IV	SA – II Practical Exam	MCQ Activity	C.W and H.W

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

<b>Months</b>	<b>History</b>	<b>Geography</b>	<b>Political Science</b>	<b>Economics</b>
April	Ch-1 The French Revolution	Ch-1 India-Size and Location	Ch-1 Democracy In The Contemporary World	-----
May	-----	Ch-2 Physical features of India	Ch-2 What is Democracy? Why Democracy?	-----
July	Ch-3 Nazism	Ch-3 Drainage	-----	Ch-1 The Story Of Village Palampur
August	-----		Ch-3 Designing of Democracy (8pds)	Ch-2 People As A Resource
SEPTEMBER	-----	-----	-----	Revision
October	Ch-4 Forest Society And Colonialism	-----	Ch-4 Electoral Politics	-----
November	-----	Ch-4 Climate	Ch-5 Working Of Institutions	-----
December	Ch-7 The Story Of Cricket		-----	Ch-3 Poverty As A Challenge
January	-----	Ch-5 Natural Vegetation And Wild Life Ch-6 Population	-----	Ch-4 Food Security In India
February	Revision	-----	Ch-6 Democratic Rights	-----

## Formative Assessment Activities

<b>Assessment</b>	<b>Individual Activity (10)</b>	<b>Group Activity (10)</b>	<b>Pen &amp; Paper Test (10)</b>
FA1	CBSE Project	Case study on “Gender discrimination”	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)

पाठ्य पुस्तक - 'स्पर्श'

सहायक पुस्तक - 'संचयन'

व्याकरण - 'आधुनिक हिन्दी व्याकरण'

कक्षा - नवीं

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

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

## 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, मुक्त पाठ अभ्यास

## फरवरी

साहित्य- 1. शुकृतारे के समान 2. दिए जल उठे

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

विषय...हिन्दी (एफ. ए. गतिविधियाँ)

कक्षा ... नवम (2016-2017)

एफ. ए. 1

- ❖ व्यक्तिगत कार्य.....ग्रीष्मावकाश गृहकार्य
- ❖ लिखित कार्य.....अभ्यास पत्र
- ❖ सामूहिक कार्य..... पुस्तकालय संबंधी कार्य

(चुने हुए किन्हीं दो कवियों/लेखकों की दस-दस कृतियों की सूची बनाना।)

एफ. ए. 2

- ❖ व्यक्तिगत कार्य..... संवाद प्रस्तुति  
(चित्र के आधार पर)
- ❖ लिखित कार्य..... साप्ताहिक परीक्षा 1
- ❖ सामूहिक कार्य..... नाट्य मंचन

(दुख का अधिकार)



एफ. ए. 3

❖ व्यक्तिगत कार्य.....विचार अभिव्यक्ति

(यदि धरती से तेल समाप्त हो जाए तो.....)

❖ लिखित कार्य..... साप्ताहिक परीक्षा - 2

❖ सामूहिक कार्य..... स्वरचित कविता

(दिए गए चित्रों एवं शब्दों के आधार पर लेखन व वाचन)

एफ. ए. 4

❖ व्यक्तिगत कार्य.....कहानी वाचन

(कर्म ही इंसान की पहचान)

❖ लिखित कार्य..... समाचार पत्र निर्माण

❖ सामूहिक कार्य..... समूह परिचर्चा

(सांप्रदायिक एकता)