BAL BHARATIPUBLICSCHOOL,APCPL- IGSTPS, JHARLI

SYLLABUS 2022-23 SUBJECT : IX

Prescribed Books for class 9 English

- BEEHIVE – Textbook for class IX
- MOMENTS – Supplementary Reader for Class IX

MONTHS/DAYS	PROSE (Beehive)	POETRY	SUPPLEMENTARY READER (Moments)	GRAMMAR	WRITINGSKILLS
April - May	1. The Fun They Had 2. The Sound of Music	1. The Road Not Taken 2. Wind	1. The Lost Child 2. The Adventures of Toto	1. Verb Forms 2. Subject verb Integrated Grammar Practice	Article Writing Diary Entry
July	3. The Little Girl 4. A Truly Beautiful Mind	3. Rain on the Roof 4. The Lake Isle of Innisfree	3. Iswaran the Storyteller 4. In the Kingdom of Fools	3. Determiners 4. Sentence Reordering Integrated Grammar Practice	Bio-Sketch Informal Letter
August	5. The Snake and the Mirror 6. My Childhood	5. A Legend of the Northland 6. No Men Are Foreign	5. The Happy Prince	5.Connectors Integrated Grammar Practice	Formal Letter Email
September	7. Reach for the Top	7. On Killing a Tree	6. The Last leaf	6.Sentence Transformation (Reported Speech) Integrated Grammar Practice	Speech Writing
October	8. Kathmandu	8. A Slumber did My Spirit Seal	7. A House is Not a Home	7.The Passive Integrated Grammar Practice	Story Writing
November	9. If I were you	-	8. The Beggar	8News Headlines Integrated Grammar Practice	Descriptive paragraph
December	-	-	-	Revision	Revision

January-February
March

Periodic test Syllabus

Periodic test -I	Periodic test -II	Periodic test- III
Reading Skills- Unseen passages/poetry **Writing and Grammar-** Article Writing, Diary Entry ,Integrated Grammar **Text books (NCERT)-** 1. The Fun They Had 2. The Sound of Music 3. The Road Not Taken	**Reading Skills - Unseen passages/poetry** **Writing and Grammar -** Integrated Grammar,Bio-Sketch, Informal Letter Writing, Formal Letter Writing **Text books (NCERT)** 1. The Fun They Had 2. The Sound of Music 3. The Little Girl 4. A Truly Beautiful Mind 5. The Snake and the Mirror 6. The Road Not Taken 7. Wind	**Reading Skills- Unseen passages/poetry** **Writing and Grammar-** Speech, letter Writing,Story Writing,Email,Integrated Grammar **Text books (NCERT)** 1. A Truly Beautiful Mind 2. The Snake and the Mirror 3. My Childhood 4. Packing 5. Reach for the Top 6. The Bond of Love 7. Rain on the Roof 8. The Lake Isle of Innisfree 9. A Legend of the Northland 10. No Men Are Foreign 11. The Duck and the Kangaroo 12. On Killing a Tree

HINDI SYLLABUS(2022-23)

Month	NO. OF WORKING DAYS	TOPICS	Grammer	ACTIVITY
April	20	पाठ - 1 एवरेस्ट : मेरी शिखर यात्रा पाठ - 2 रैदास के पद	पाठ - अपठित गदयांश	

May	14	पाठ- 1(संचयन) गिल्लू	पाठ - शब्द और पद पाठ - पदयांश	कहानी समीक्षा
June	00			
July	22	पाठ - 3 तुम कब जाओगे अतिथि पाठ - 4 रहीम के दोहे	पाठ - अनुस्वार व अनुनासिक	कविता लेखन
August	22	पाठ - 5 वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन पाठ - 2 (संचयन) स्मृति	पाठ - उपसर्ग व प्रत्यय पाठ - अनौपचारिक पत्र	श्रवण कौशल
September	24	पाठ- 6 धर्म की आड़ पाठ - 3 (संचयन) कल्लू कुम्हार की उनाकोटी	पाठ - स्वर संधि पाठ - विराम चिह्न	यात्रा वृतांत
October	16	**EXAMINATION TEARM -1**		
November	23	पाठ - 7 गीत-अगीत पाठ - 8 शुक्र तारे के समान पाठ - 9 अग्निपथ	पाठ - अर्थ की दृष्टि से वाक्य भेद पाठ - अनुच्छेद लेखन।	वाद-विवाद
December	23	पाठ - 10 1.नए इलाके में, 2. खुशबू रचते हैं हाथ पाठ - 4 (संचयन) हामिद खाँ	पाठ - संवाद लेखन चित्र वर्णन	संवाद लेखन
January	17	पुनरावृति		

February	21	पुनरावृत्ति		

PT -1 पाठ्यक्रम

पाठ - 1 एवरेस्ट :मेरी शिखर यात्रा पाठ - 2 रैदास के पद	पाठ - अपठित गदयांश
पाठ- 1(संचयन) गिल्लू	पाठ - शब्द और पद

PT - 2 पाठ्यक्रम

पाठ - 3 तुम कब जाओगे अतिथि पाठ - 4 रहीम के दोहे	पाठ - अनुस्वार व अनुनासिक

PT - 3 सिलेबस पाठ्यक्रम

पाठ - 7 गीत-अगीत पाठ - 8 शुक्र तारे के समान पाठ - 9 अग्निपथ	पाठ - अर्थ की दृष्टि से वाक्य भेद पाठ - अनुच्छेद लेखन।

SUBJECT – MATHEMATICS

Month	CHAPTER	SUB TOPICS	MATHS LAB ACTIVITY
April	• Number system • Coordinate Geometry	• Irrational numbers • Operation on real numbers. • Laws of exponents The Cartesian plane coordinates of a point, names and terms associated with the coordinate plane, notations.	1.To construct square root spiral. 2. To obtain the square root of any given positive real number through an activity, involving paper folding and geometrical construction.

May	Linear Equation in two Variables	• Recall of linear equations in one variable. • Introduction to the equation in two variables. Focus on linear equations of the type ax + by + c=0. • Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pairs of real numbers, plotting them and showing that they lie on a line.	Making graph of linear equations
July	• Polynomials	• Definition of a polynomial in one variable, with examples and counter examples. • Coefficients of a polynomial, terms of a polynomial and zero polynomial. • Degree of a polynomial. Constant, linear, quadratic and cubic polynomials. Monomials, binomials, trinomials. • Factors and multiples. • Zeros of a polynomial. Motivate and State the Remainder Theorem with examples. • Statement and proof of the Factor Theorem. • Factorization of $ax^2 + bx + c$, $a \neq 0$ where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. • Recall of algebraic expressions and identities. Verification of identities: +	To verify identity $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$

	• Lines and Angles • INTRODUCTION TO EUCLID'S GEOMETRY	and their use in factorization of polynomials Terms and Definition 1.(Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is 180O and the converse. 2. (Prove) If two lines intersect, vertically opposite angles are equal. 3. (Motivate) Lines which are parallel to a given line are parallel. • History - Geometry in India and Euclid's geometry. Euclid's method of formalizing observed phenomenon into rigorous Mathematics with definitions, common/obvious notions, axioms/postulates and theorems. • The five postulates of Euclid. Showing the relationship between axiom and theorem, for example: • (Axiom) 1. Given two distinct points, there exists one and only one line through them. (Theorem) • 2. (Prove) Two distinct lines cannot have more than one point in common	To find out the relationship between vertically opposite angles, formed by the intersection of two lines, using method of tracing.

August	• Triangles • Quadrilaterals	1. (Motivate) Two triangles are congruent if any two sides and the included angle of one triangle is equal to any two sides and the included angle of the other triangle (SAS Congruence). 2. (Prove) Two triangles are congruent if any two angles and the included side of one triangle is equal to any two angles and the included side of the other triangle (ASA Congruence). 3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence). 4. (Motivate) Two right triangles are congruent if the hypotenuse and a side of one triangle are equal (respectively) to the hypotenuse and a side of the other triangle. (RHS Congruence) 5. (Prove) The angles opposite to equal sides of a triangle are equal. 6. (Motivate) The sides opposite to equal angles of a triangle are equa 1. (Prove) The diagonal divides a parallelogram into two congruent triangles. 2. (Motivate) In a parallelogram opposite sides are equal, and conversely. 3. (Motivate) In a parallelogram opposite angles are equal, and conversely. 4. (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal. 5. (Motivate) In a parallelogram, the diagonals bisect each other and conversely. 6. (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side	1.To verify the Angle Sum property of a triangle, using the method of paper cutting and pasting. 2.To verify that the diagonals of the parallelogram bisect each other, using triangle cut outs.

		and in half of it and (motivate) its converse.	
September	• Circles	1.(Prove) Equal chords of a circle subtend equal angles at the center and (motivate) its converse. 2.(Motivate) The perpendicular from the center of a circle to a chord bisects the chord and conversely, the line drawn through the center of a circle to bisect a chord is perpendicular to the chord. 3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely. 4.(Prove) The angle subtended by an arc at the center is double the angle subtended by it at any point on the remaining part of the circle. 5.(Motivate) Angles in the same segment of a circle are equal. 6.(Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side	To verify that the angle subtended by an arc of a circle at the centre is double the angle subtended by it on the remaining part of the circle by paper cutting and pasting.

		of the line containing the segment, the four points lie on a circle. 7.(Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is 180° and its converse.	
October	• Heron´s formula • Surface Area and Volume	• Area of a triangle by Heron´s formula • Volume and surface area of cuboid, cone, hemisphere and sphere.	To obtain the formula for the lateral surface area of a right circular cylinder through an activity.
November	• Statistics	Bar graphs, histograms (with varying base lengths), and frequency polygons.	
December	REVISION		
January			
February			

- Text Book-Mathematics- NCERT for Class IX
- NCERT EXAMPLAR CLASS - IX

EVALUATION SYLLABUS (2022-23):

Periodic Test I:

1. **Number System**
2. **Coordinate Geometry**

Periodic Test II:

1. Polynomials

2. Lines and Angles

Periodic Test III (Activity Based)

Activity covered in the month of April to PT- III

SCIENCE

S.No	*Month / no of working days*	*Topic*	*Sub-Topic*	*Activity*	*Resource*
1.	April/20	Matter in Our Surroundings . Motion	. Characteristics of particles of matter. . States of Matter. . Interconversions of States. . Evaporation . . Uniform and Non-Uniform Motion.	To show the process of sublimation .	Practical

			. Velocity		
2.	May/14	Motion Is Matter Around Us Pure .	. Graphical representation of Motion. . Equation of motion. . Elements , Compounds and Mixtures.	Videos showing types of motion and graphical representation of motion .	Smart class .
3.	July/22	Is Matter Around Us Pure .	. Heterogeneous and Homogeneous Mixtures. . Colloids and Suspensions.	.To differentiate between compound and mixture. .Formation of Colloids and it's properties.	Practical
4.	August/22	Force and Laws of Motion	. Force .Inertia .Momentum		Smart Class

					lab
5.	September/16	Gravitation	Gravitation Gravity constant	Video related to the topic.	smart class
6.	November/23	Atoms and Molecules Structure of Atoms	. Electrons,Protons and Neutrons. . Isotopes and Isobars . Work and Energy. . Power. . Types of energy . Law of Conservation of Energy.	Video . Discussion on various types of energy conversion by taking examples from surroundings.	Smart class.
8.	December/23	Work power and energy Sound	. Work and energy . Power .Types of energy .Law of conservation of energy . Sound . Speed of Sound. . Range of hearing in	Video	Smart class

			humans . Ultrasound and Echo. . SONAR.		
9.	January	Sound			
S.No.	MONTHS/ No. OF WORKING DAYS	And Revision. TOPICS	SUB-TOPICS	RESOURCES	ACTIVITIES

CLASS - IX (ANNUAL BIOLOGY BI-FURCATION PLAN)

	APRIL/20	**THE FUNDAMENTAL UNIT OF LIFE**	• What are living made up of? • What is cell made up of? What is the structural organizatio n of a cell?	Practical learning/ Smart Board teaching	1) To perform osmosis through potato osmometer. 2) To observe the slides of plant and animal cell.
	MAY/14	**TISSUES**	• Are plants and animals made up of same tyopes of tissues? • Plant tissues • Animal tissue	Practical learning/ Smart Board teaching	1) To observe the slides of skeletal, cardiac and smooth muscles under microscope. 2) To obseve the slides of parenchyma, collenchymas and sclerenchyma tissues slides under microscope. 3) To observe the tissue of xylem and phloem under microscope.

	JULY/22	**DIVERSITY IN LIVING ORGANISMS**	• What is the basis of classificatio m? • Classificatio n and evolution • The hierarchy of classificatio n - Groups • Plantae • Animalia	Practical learning/ Smart Board teaching/ Model Demonstration	1) To prepare Herbarium as a classification tools.
	AUGUST/22	**REVISION OF TERM -1 SYLLABUS**			
	SEPTEMBER/ 24				

	OCTOBER/16	**REVISION + TERM-I EXAM**			
	NOVEMBER/23	**IMPROVEMENT IN FOOD RESOURCES**	**Improvement in crop yields** **Animal husbandry**	Practical learning/ Smart Board teaching/ Model Demonstration	To prepare manure and compost from biodegradable waste. To demonstrate intercropping and food storage practice
	DECEMBER/23				
	JANUARY/17				
	FEBRUARY/21	**REVISION OF TERM - II SYLLABUS**			
	MARCH/22	**REVISION + TERM-II EXAM**			

Social Science Syllabus (2022-23)

Sr. No.	Month/ No of Working Days	Topics	Sub-Topics	Activities
April	20	**The French Revolution**	➢ French Society During the Late Eighteenth Century ➢ The Outbreak of the Revolution ➢ France Abolishes Monarchy and ➢ Becomes a Republic Did Women have a Revolution? ➢ The Abolition of Slavery ➢ The Revolutio	Debate Map Work

		India :Size and Location
		What is Democracy? Why Democracy?
May	14	**The Story of Village Palampur**
June	0	**S**
July	22	**Socialism in Europe and the Russian Revolution**
		Drainage
		Physical Features of India
August	22	**Climate**
		Constitutional Design

		People as Resource
September	24	**Natural Vegetation and wildlif**
		Nazism and the rise of Hitler
		Population
		Electoral Politics
October	16	**Forest society and colonialism**
		Working of Institutions
November	23	**Poverty as a challenge**
		Pastoralists in the Modern World
		Food Security in India

December	23	**Democratic Rights**
January	17	