



**RUBY PARK  
PUBLIC SCHOOL**



# **CLASS IX** **SYLLABUS**



**Session: 2023-24**

**English**

Month	LANGUAGE		LITERATURE	
April	Writing Skill	Grammar	Main Course Book	Interact in English
	Speech Writing	Determiners	U5D. Harry Potter	F1: How I Taught My Grandmother to Read
	Notice Writing	Verb Forms		
		Tenses		F3: The Man Who Knew Too Much
April				
	Informal Letter		U6D. Life Skills	P1: The Brook
<b>PERIODIC TEST 1</b>				
May	Composition	Modals	U1A. An Exemplary Leader	F2: A Dog Named Duke
		Subject Verb Concorde		
June	Dialogue Writing	Conjunctions	U2A. The Final Flight	P2: The Road Not Taken
			U3A. The Indian Rhinoceros	
July		Phrases-Clauses (Types)	U4A. Radio Show	F4: Keeping It from Harold
			U5A. Bermuda Triangle	
	Dialogue Writing (contd.)	Phrases-Clauses (Types) (contd.)	U6A. Tom Sawyer	P3: The Solitary Reaper





<b>July</b>			U7A Grandmaster Koneru Humpy Queen of 64 squares	
<b>August</b>	Paragraph Writing	Reported Speech	U1B. A Burglary Attempt	D1. Villa for sale
			U2B The Sound of the Shell	
<b>August</b>	Revision	Reported Speech (contd.)	U3B Save Mother Earth	D1. Villa for sale (contd.)
			U4B. Video Show	
<b>PERIODIC TEST 2</b>				
<b>September</b>	Notice Writing	Sentences reordering	U5B. The Invisible Man	P4. The Seven Ages Of Man
			U6B. Children of India	
<b>October</b>	Formal Letter	Voice	U7B. Its Sports Day	P5. Oh, I Wish I'd Looked After Me Teeth
<b>PERIODIC TEST 3</b>				
<b>November</b>	Paragraph Writing	Phrases and Clauses	U1C. Can You Know People You Haven't Met	P6. Song of The Rain
			U2C. Ordeal in the Ocean	D2. The Bishop's Candlesticks
<b>November</b>	Dialogue Writing	Reported Speech	U3C. Save the Tiger	D2. The Bishop's Candlesticks (contd.)
			U5C. The Tragedy of Birlstone	
<b>December</b>	Notice Writing	Conjunctions	U6C. Children and Computers	F5: Best Seller







			U7C. Hockey and Football	
January	Revision	Integrated Grammar	U6E. We Are the World	Revision
Annual Examination	Revision	Revision	Revision	Revision





**Session: 2023-24**

**Subject – 2<sup>nd</sup> Language ( Hindi )**

MONTH	LANGUAGE	LITERATURE
APRIL	अनुच्छेद लेखन, संवाद लेखन, अनुस्वार, अनुनासिक	रैदास के पद, दुख का अधिकार
MAY - JUNE	PT-1 EXAMINATION	
MAY	शब्द और पद	रहीम के दोहे, गिल्लू
JUNE	स्वर संधि ,विराम चिह्न	स्मृति
JULY	अर्थ की दृष्टिसे वाक्य भेद, चित्र वर्णन, उपसर्ग-प्रत्यय	एवरेस्ट : मेरी शिखर यात्रा, तुम कब जाओगे अतिथि
AUGUST	पत्र लेखन (अनौपचारिक), अपठित गद्यांश	वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन्, गीत-अगीत
SEPTEMBER	REVISION FOR PT-2 EXAMINATION	
	PT-2 EXAMINATION	
SEPTEMBER	पत्र लेखन (अनौपचारिक)	शुक्रतारे के समान, अग्निपथ
OCTOBER	अपठित गद्यांश	खुशबू रचते हैंहाथ, नएइलाके में
NOVEMBER	उपसर्ग -प्रत्यय	कल्लू कुम्हार की उनाकोटी
DECEMBER	PT-3 EXAMINATION	
DECEMBER	पुनरावृत्ति	मेरा छोटा-सा निजी पुस्तकालय
JANUARY	REVISION FOR ANNUAL EXAMINATION	
FEBRUARY	ANNUAL EXAMINATION	





**Session: 2023-24**

**Subject – 2<sup>nd</sup> Language ( Bengali )**

Month	Topic
April	বোধপরীক্ষণ ব্যাকরণ - স্বরসন্ধি সাহিত্য- ইলিয়াস(গদ্য) সহায়ক পাঠ - আমআঁটিরভেঁপু- ১৩২অধ্যায়
May	সাহিত্য - খেয়া (কবিতা) নির্মিতি - প্রতিবেদন
Periodic Test 1	
June	সাহিত্য – ব্যথারবাঁশি (কবিতা) নির্মিতি-বিজ্ঞপ্তি সহায়ক পাঠ - আমআঁটিরভেঁপু- ৩৩৪অধ্যায়
July	সাহিত্য - চিঠি (গদ্য) ব্যাকরণ- সমাস - দ্বিগু, তৎপুরুষ , বহুব্রীহি সহায়ক পাঠ - আমআঁটিরভেঁপু- ৫৩৬অধ্যায়
August	সাহিত্য- ছুটি (গদ্য) ব্যাকরণ - বাক্যপরিবর্তন - নির্দেশক, প্রশ্নসূচক, বিস্ময়বোধক, অনুজ্ঞাসূচক, প্রার্থনাসূচক সহায়ক পাঠ - আমআঁটিরভেঁপু- ৭৩৮অধ্যায়
Periodic Test 2	
September	সাহিত্য - জন্মভূমিআজ (কবিতা)





	ব্যাকরণ- শব্দগতওবাক্যগতঅশুদ্ধি সহায়ক পাঠ - আমআঁটিরভেঁপু - ৯৩১০অধ্যায়
October	নির্মিতি-বোধপরীক্ষণ সহায়ক পাঠ - আমআঁটিরভেঁপু - ১১৩১২অধ্যায়
Periodic Test 3	
November	সাহিত্য- দাম (গদ্য) সহায়ক পাঠ - আমআঁটিরভেঁপু - ১৩৩১৪অধ্যায়
December	এইজীবন (কবিতা) সহায়ক পাঠ - আমআঁটিরভেঁপু - ১৫৩১৬অধ্যায়
January	Revision
February	Annual Examination





**Session: 2023-24**

**Subject – MATHEMATICS**

	UNIT	TOPIC	SUB - TOPIC	ACTIVITY
April	1.	Real Numbers	<p><u>1. Review</u> of representation of natural numbers, integers, and rational numbers on the number line. Rational numbers as recurring/ terminating decimals. Operations on real numbers.</p> <p><u>2. Examples</u> of non-recurring/non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as, and their representation on the number line. Explaining that every real number is represented by a unique point on the number line and conversely, viz. every point on the number line represents a unique real number.</p> <p><u>3. Definition</u> of nth root of a real number.</p> <p><u>4. Rationalization</u> (with precise meaning) of real numbers of the type <math>\frac{1}{a+b\sqrt{x}}</math> and <math>\frac{1}{\sqrt{x}+\sqrt{y}}</math> (and their combination) where x and y are natural numbers &amp; a, b are integers.</p> <p><u>5. Recall</u> of laws of exponents with integral powers. Rational exponents with positive real bases (to be done by particular cases, allowing learner to arrive at the general laws.)</p>	Square Root Spiral
	2.	Polynomials	<p>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 <math>ax^2 + bx + c, a \neq 0</math> where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem.</p> <p>Recall of algebraic expressions and identities. Verification of identities:</p> $(a+b+c)^2 = a^2 + b^2 + c^2 + 2ab + 2bc + 2ca$ $(x \pm y)^3 = x^3 \pm y^3 \pm 3xy(x \pm y)$ $x^3 \pm y^3 = (x \pm y)(x^2 \mp xy + y^2)$ $x^3 + y^3 + z^3 - 3xyz = (x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)$ <p>And their use in factorization of polynomials.</p>	







Ma y	3.	Introduction to Euclid's geometry	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.	
<b>Periodic Test 1</b>				
Jun e	4.	Lines & Angles	1.(Motivation)If a ray stands on a line, then the sum of the two adjacent angles so formed is $180^\circ$ and the converse 2.(Proof)If two lines intersect, vertically opposite angles are equal. 3.(Motivation)Lines which are parallel to a given line are parallel	
	5	Coordinate Geometry	The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations.	Coordinate Geometry(S treet Plan)





Jul y	6	Triangles	<p>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).</p> <p>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).</p> <p>4</p> <p>3. (Motivate) Two triangles are congruent if the three sides of one triangle are equal to three sides of the other triangle (SSS Congruence).</p> <p>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)</p> <p>5. (Prove) The angles opposite to equal sides of a triangle are equal.</p> <p>6. (Motivate) The sides opposite to equal angles of a triangle are equal.</p>	
	7	Heron's Formula	Area of a triangle using Heron's formula (without proof)	Street Plan
Au gus t	8.	Statistics	Bar graphs, histograms (with varying base lengths), and frequency polygons.	
	9.	Linear Equation in Two variables	<p>Recall of linear equations in one variable. Introduction to the equation in two variables.</p> <p>Focus on linear equations of the type <math>ax + by + c = 0, (a, b) \neq (0, 0); a, b, c \in \mathbb{R}</math>. 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.</p>	
Sep tem ber		<b>Revision</b>		





Periodic Test 2				
October	10.	Quadrilaterals	<p>1. (Prove) The diagonal divides a parallelogram into two congruent triangles.</p> <p>2. (Motivate) In a parallelogram opposite sides are equal, and conversely.</p> <p>3. (Motivate) In a parallelogram opposite angles are equal, and conversely.</p> <p>4. (Motivate) A quadrilateral is a parallelogram if a pair of its opposite sides is parallel and equal.</p> <p>5. (Motivate) In a parallelogram, the diagonals bisect each other and conversely.</p> <p>6. (Motivate) In a triangle, the line segment joining the mid points of any two sides is parallel to the third side and in half of it and (motivate) its converse.</p>	Mid Point Theorem
November	11.	Circles	<p>1.(Prove) Equal chords of a circle subtend equal angles at the center and (motivate) its converse.</p> <p>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.</p> <p>3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely.</p> <p>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.</p> <p>5.(Motivate) Angles in the same segment of a circle are equal.</p> <p>6.(Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line containing the segment, the four points lie on a circle.</p> <p>7.(Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is <math>180^\circ</math> and its converse.</p>	
December	12.	Surfaces Areas and Volumes	Surface areas and volumes of spheres (including hemispheres) and right circular cones.	Angle subtended at the centre of the circle





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Periodic Test 3		
January	REVISION	
Syllabus for Annual Examination: Unit 1 to 12 as prescribed by CBSE		







**Session: 2023-24**

**Subject – Physics**

MONTH	UNIT	TOPIC	SUB TOPIC	PRACTICAL
April	1	Motion	Distance and Displacement; velocity; Uniform and non-uniform motion along a straight line	
April			Acceleration, Distance-time and velocity-time graphs for uniform motion	
May			Uniformly accelerated motion, elementary idea of uniform circular motion	
Periodic Test- I				
June	2	Force and Newton's Laws of Motion.	Concept of force and motion	
July	2	Force and Newton's Laws of Motion.	Newton’s laws of motion, Action and reaction forces.	
July			Inertia of a body, Inertia and mass	
August			Momentum, force and acceleration	
Periodic Test- II				
September	3	Gravitation	Universal laws of gravitation; Force of gravitation of the earth (gravity); Acceleration due to gravity; Mass and weight, free fall.	Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.





October	4	Floatation	Thrust and pressure; Archimedes Principle; Buoyancy	Establishing the relation between the loss in weight of a solid when fully immersed in a) tap water b) strongly salty water, with the weight of water displaced by it by taking at least two different solids.
November	5	Work, Energy and Power	Work done by the force, Energy, Kinetic and potential energy	
Periodic Test- III				
November	5	Work, Energy and Power	Law of conservation of energy(excluding commercial unit of energy); Power;	
December	6	Sound	Nature of sound and its propagation in various medium, speed of sound; range of hearing in humans	Verification of the Laws of reflection of sound.
January	6	Sound	Ultrasound, Reflection of sound- Echo,	Determination of the speed of a pulse propagated through a stretched string/slink(helical spring).
January	Revision			
February	ANNUAL EXAMINATION			
Syllabus for Annual Examination : Entire syllabus as prescribed by CBSE				





**Session: 2023-24**

**Subject – Chemistry**

MONTH	CHAPTER	SUB-TOPIC
APRIL	Metals and Non-Metals	Definition of Metals and Non Metals Physical properties of metals and non-metals Chemical properties of metals and non-metals
MAY-JUNE	<b>PRE-MIDTERM EXAMINATION</b>	
MAY	Metals and Non-Metals	Uses of metals and non-metals Alloys
JUNE	Natural resources	Exhaustible and In-exhaustible natural resources Coal & Story of coal Products obtained from destructive distillation of coal
JULY	Natural resources	Types of coal Petroleum-Its formation & refining Natural gas Some natural resources are limited
	Combustion and Flame	What is combustion? Fuel, Ignition Temperature, Inflammable substances NCERT Activity 6.1 to 6.4 How do you control fire?
AUGUST	Combustion and Flame	Types of combustion Flame-its structure What is a fuel? Fuel efficiency Harmful effects of burning fuel
	Synthetic Fibres and Plastics	What are synthetic fibres? Types of synthetic fibres & their Characteristics Silk vs Rayon Advantages and disadvantages of synthetic fibres Types of plastic Plastic as material of choice Some important properties of synthetic materials Plastic and environment
SEPTEMBER	<b>REVISION FOR HALF YEARLY EXAMINATION</b>	
	<b>HALF YEARLY EXAMINATION</b>	





MONT H	UNIT	CHAPTER	SUB -TOPIC	PRACTICAL
April	1	The Fundamental Unit of Life	<ul style="list-style-type: none"><li>What are living organisms made up of?</li><li>Structural organization of a cell</li><li>Osmosis and diffusion</li></ul>	Preparation of stained temporary mounts of a. Onion peel cell b. Human cheek cell
May	1	The Fundamental Unit of Life	<ul style="list-style-type: none"><li>Cell organelles</li></ul>	
Periodic Test 1				
June	1	The Fundamental Unit of Life	<ul style="list-style-type: none"><li>Cell organelles</li></ul>	Identification of Parenchyma, Collenchyma and Sclerenchyma tissues of plant.
	2	Tissues	<ul style="list-style-type: none"><li>Plant tissues</li></ul>	
July	2	Tissues	<ul style="list-style-type: none"><li>Plant tissues</li></ul>	
August	2	Tissues	<ul style="list-style-type: none"><li>Animal tissues</li></ul>	Identification of striped. Smooth and cardiac muscle fibers and nerve cells in animals. from prepared slides.
Periodic Test 2				
Septemb er	5	Improvement in Food Resources	<ul style="list-style-type: none"><li>Crop variety improvement</li><li>Crop production management</li></ul>	
October	5	Improvement in Food Resources	<ul style="list-style-type: none"><li>Crop protection management</li><li>Animal husbandry</li></ul>	
PERIODIC TEST 3				
Novemb er	5	Improvement in Food Resources	<ul style="list-style-type: none"><li>Animal husbandry</li></ul>	
Decembe r	Revision			
January	Revision			
February	ANNUAL EXAMINATION			







**Session: 2023-24**

**Subject – Biology**

MONTH	UNIT	CHAPTER	SUB -TOPIC	PRACTICAL
April	1	The Fundamental Unit of Life	<ul style="list-style-type: none"><li>What are living organisms made up of?</li><li>Structural organization of a cell</li><li>Osmosis and diffusion</li></ul>	Preparation of stained temporary mounts of a. Onion peel cell b. Human cheek cell
May	1	The Fundamental Unit of Life	<ul style="list-style-type: none"><li>Cell organelles</li></ul>	
Periodic Test 1				
June	1	The Fundamental Unit of Life	<ul style="list-style-type: none"><li>Cell organelles</li></ul>	Identification of Parenchyma, Collenchyma and Sclerenchyma tissues of plant.
	2	Tissues	<ul style="list-style-type: none"><li>Plant tissues</li></ul>	
July	2	Tissues	<ul style="list-style-type: none"><li>Plant tissues</li></ul>	
August	2	Tissues	<ul style="list-style-type: none"><li>Animal tissues</li></ul>	Identification of striped. Smooth and cardiac muscle fibers and nerve cells in animals. from prepared slides.
Periodic Test 2				
September	5	Improvement in Food Resources	<ul style="list-style-type: none"><li>Crop variety improvement</li><li>Crop production management</li></ul>	
October	5	Improvement in Food Resources	<ul style="list-style-type: none"><li>Crop protection management</li><li>Animal husbandry</li></ul>	
PERIODIC TEST 3				
November	5	Improvement in Food Resources	<ul style="list-style-type: none"><li>Animal husbandry</li></ul>	
December	Revision			
January	Revision			
February	ANNUAL EXAMINATION			

**SYLLABUS FOR YEARLY EXAMINATION**

**Entire syllabus as prescribed by CBSE**





**Session: 2023-24**

**Subject – History**

MONTH	UNIT	TOPICS/CHAPTERS	SUBTOPICS
April	1	The French Revolution	<ul style="list-style-type: none"> <li>• French Society During the Late 18<sup>th</sup> Century</li> <li>• The outbreak of the Revolution</li> </ul>
May	1	The French Revolution	<ul style="list-style-type: none"> <li>• France abolishes Monarchy and Becomes a Republic</li> <li>• Did Women have a Revolution?</li> <li>• The Abolition of Slavery</li> <li>• The Revolution and Everyday life</li> </ul>
June	PERIODIC TEST 1		
July	2	Socialism in Europe and Russian Revolution	<ul style="list-style-type: none"> <li>• The Age of Social Change</li> <li>• The Russian Revolution</li> <li>• The February Revolution in Petrograd</li> <li>• What Changed in October?</li> <li>• The Global influence of the Russian Revolution and the U.S.S.R.</li> </ul>
August	REVISION		
September	PERIODIC TEST 2		
October	3	Nazism and the Rise of Hitler	<ul style="list-style-type: none"> <li>• Birth of Weimer Republic</li> </ul>
November	3	Nazism and the Rise of Hitler	<ul style="list-style-type: none"> <li>• Hitler's Rise to Power</li> <li>• The Nazi Worldview</li> <li>• Youth in Nazi Germany</li> <li>• Ordinary people and Crimes Against Humanity</li> </ul>
	4	Forest Society and Colonialism	<ul style="list-style-type: none"> <li>• Why Deforestation?</li> <li>• Rise of Commercial Forestry</li> <li>• Rebellion in the Forest</li> <li>• Forest Transformation in Java</li> </ul>
December	PERIODIC TEST 3		





<b>January</b>	5	Pastoralists in the Modern World	<ul style="list-style-type: none"><li>•Pastoral Nomads and their Movements</li><li>•Colonial Rule and Pastoral Life</li><li>•Pastoralism in Africa</li></ul>
<b>February</b>	REVISION		
<b>February</b>	FINAL EXAMINATION		





**Session : 2023-24**

**Subject – Geography**

MONTH	UNIT	TOPICS/CHAPTERS	SUB TOPICS
APRIL	1	INDIA: SIZE AND LOCATION	<ul style="list-style-type: none"> <li>Size and Location</li> <li>India and the World</li> <li>India's Neighbours</li> </ul>
MAY	2	INDIA: PHYSICAL FEATURES	<ul style="list-style-type: none"> <li>Major Physiographic Divisions</li> <li>The Himalayan Mountains</li> <li>The Northern Plain</li> </ul>
<b>PERIODIC TEST 1</b>			
JUNE	2	INDIA: PHYSICAL FEATURES (CONT.)	<ul style="list-style-type: none"> <li>The Peninsular Plateau</li> <li>The Indian Desert</li> <li>The Coastal Plains</li> <li>The Islands</li> </ul>
JULY	3	INDIA: DRAINAGE	<ul style="list-style-type: none"> <li>Major rivers and tributaries</li> <li>Lakes</li> <li>Role of rivers in the economy</li> <li>Pollution of Rivers</li> </ul>
	4	INDIA: CLIMATE	<ul style="list-style-type: none"> <li>Concept</li> <li>Climatic Controls</li> <li>Factors influencing India's climate (excluding Jet Streams and western cyclonic disturbances and related figures)</li> <li>The Indian Monsoon</li> </ul>
AUGUST	4	INDIA: CLIMATE (contd.)	<ul style="list-style-type: none"> <li>Distribution of Rainfall</li> <li>Monsoon as a unifying bond</li> </ul>
<b>PERIODIC TEST 2</b>			







SEPT	5	INDIA: NATURAL VEGETATION AND WILDLIFE	<ul style="list-style-type: none"><li>Wildlife (to be evaluated in the annual examination)</li></ul>
OCT	5	INDIA: NATURAL VEGETATION AND WILDLIFE (contd.)	Inter Disciplinary Project Types of Vegetation
NOV			
PERIODIC TEST 3			
DEC & JAN	6	INDIA: POPULATION	<ul style="list-style-type: none"><li>Size</li><li>Distribution</li><li>Population Growth and Process of Population Change</li><li>Characteristics of population: Age Composition, Sex Ratio, Literacy Rate, Occupational Structure, Health, Adolescent population</li></ul>
	REVISION		
DISASTER MANAGEMENT IS COMPULSORY AND MUST BE ASSESSED AS A SUBJECT ENRICHMENT MODULE.			
FEB	ANNUAL EXAMINATION		
SYLLABUS FOR ANNUAL EXAMINATION:			
Syllabus for Annual Examination- as prescribed by CBSE.			





**Session: 2023-24**

**Subject – Economics**

MONTH	UNIT	TOPICS	SUB TOPICS
APRIL	1	THE STORY OF PALAMPUR (to be assessed in Periodic assessment only)	<ul style="list-style-type: none"> <li>• Overview</li> <li>• Organization of production.</li> <li>• Farming in Palampur.</li> <li>• Ways to grow more from the same land: Multiple cropping and Modern farming</li> <li>• Importance of irrigation.</li> </ul>
MAY	1	THE STORY OF PALAMPUR (contd.) (to be assessed in Periodic assessment only)	<ul style="list-style-type: none"> <li>• Green Revolution: Impact</li> <li>• How is land distributed between farmers in Palampur?</li> </ul>
<b>PERIODIC TEST 1</b>			
JUNE	1	THE STORY OF PALAMPUR (contd.) (to be assessed in Periodic assessment only)	<ul style="list-style-type: none"> <li>• Labour: Who provides labour? Conditions of farm labourers in Palampur.</li> <li>• How is land distributed between farmers in Palampur?</li> <li>• Capital needed in farming and Sale of Surplus farm product</li> <li>• Non-Farm activities: Dairy, Shopkeepers, Transport and Small-scale manufacturing.</li> </ul>
JULY	2	PEOPLE AS A RESOURCE	<ul style="list-style-type: none"> <li>• Overview.</li> <li>• Economic activities by men and women</li> </ul>
AUGUST	2	PEOPLE AS A RESOURCE (contd.)	<ul style="list-style-type: none"> <li>• Quality of Population.</li> <li>• Unemployment</li> </ul>
<b>PERIODIC TEST 2</b>			
SEPTEMBER & OCTOBER	3	POVERTY AS A CHALLENGE	<ul style="list-style-type: none"> <li>• Two typical cases of poverty.</li> <li>• Poverty as seen by Social Scientists.</li> <li>• Poverty Estimates.</li> <li>• Vulnerable Groups</li> </ul>
			<ul style="list-style-type: none"> <li>• Inter state disparities</li> </ul>





			<ul style="list-style-type: none"><li>• Global Poverty scenario</li><li>• Causes of poverty</li></ul>
NOVEMBER	3	POVERTY AS A CHALLENGE (contd.)	<ul style="list-style-type: none"><li>• Anti-poverty measures</li><li>• The Challenges ahead</li></ul>
PERIODIC TEST 3			
DECEMBER & JANUARY	4	FOOD SECURITY IN INDIA	<ul style="list-style-type: none"><li>• What is Food Security?</li><li>• Why Food Security?</li><li>• Who are Food insecure?</li><li>• Food security in India</li><li>• What is buffer stock?</li><li>• What is the Public Distribution System?</li><li>• Current status of Public Distribution System</li><li>• Role of cooperatives in food security</li></ul>
	REVISION		
FEBRUARY		ANNUAL EXAMINATION	
Syllabus for annual examination is as prescribed by CBSE Board			





**Session: 2023-24**

**Subject – Art**

MONTH	TOPIC	MEDIUM
April	Bengali new year activity, Chapter-1 & Still Life	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
May	Rabindra Jayanti Activity, Chapter-2 & Still Life	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
June	Rath Yatra Composition, Chapter-3, & Still Life	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
July	Composition, Chapter-4, & Landscape	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
August	Raki activity, Independence day activity or Composition, Chapter-4 & Landscape	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
September	Chapter-5 & Landscape	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
October	Durga Puja Activity, Diwali Activity, Chapter-5 & Composition-1	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
November	Chapter-5 & Composition-1	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.







December	Christmas activity, Chapter-6 & Composition-1	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
January	Republic Day Activity, Chapter-6 & Composition-2	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
February	Saraswati Puja Activity, Chapter-7 & Composition-2	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.
March	Holi Activity, Chapter-7 & Composition-2	Acrylic/Oil Painting (Canvas Painting) Water Colour, Colour Pencil & Pencil.





**Session: 2023-24**

**Subject – Political Science**

MONTH	UNIT	TOPICS/CHAPTERS	SUBTOPICS
June	1	What is Democracy? Why Democracy?	<ul style="list-style-type: none"> <li>•What is Democracy?</li> <li>•Features of Democracy</li> <li>•Why Democracy?</li> <li>•Broader Meaning of Democracy</li> </ul>
July	2	Electoral Politics	<ul style="list-style-type: none"> <li>•Why Elections?</li> <li>•What is our system of Elections?</li> <li>•What makes Elections in India Democratic?</li> </ul>
August	3	Constitutional Design	<ul style="list-style-type: none"> <li>•Democratic Constitution in South Africa</li> <li>•Why do we need a Constitution?</li> <li>•Making of the Indian Constitution</li> <li>•Guiding Values of the Indian Constitution</li> </ul>
September	REVISION		
September	PERIODIC TEST2		
December	PERIODIC TEST 3		
December	4	Working of Institutions	<ul style="list-style-type: none"> <li>•How is the major policy decision taken</li> <li>•Parliament</li> <li>•Political Executive</li> <li>•Judiciary</li> </ul>
January	5	Democratic Rights	<ul style="list-style-type: none"> <li>•Life without Rights</li> <li>•Rights in a Democracy</li> <li>•Rights in the Indian Constitution</li> <li>•Expanding the Scope of Rights</li> </ul>
February	REVISION		
February	FINAL EXAMINATION		





**Session: 2023-24**

**Subject – Guitar**

MONTH	THEORY	PRACTICAL & PERFORMANCE.
APRIL	REVISION OF PREVIOUS LESSONS	FINGER ARTICULATION EXERCISES
MAY	COMPLEX RHYTHM	MORE ON MAJOR SCALES
JUNE	COMPLEX RHYTHM EXERCISES	MORE ON MINOR SCALES
JULY	FORMATION OF MAJOR SCALES	MELODY 1
AUGUST	FORMATION MINOR SCALES	DIFFERENT MAJOR CHORDS / MELODY 2
SEPTEMBER	FORMATION OF MAJOR CHORDS	RHYTHM PLAYING STUDY NO 1
OCTOBER	FORMATION OF MINOR CHORDS	MELODY 2 / 2 OCTAVE MAJOR PENTATONIC SCALE
NOVEMBER	FORMATION OF MINOR ARPEGGIOS	RHYTHM PLAYING STUDY NO 2 / 2 OCTAVE MINOR PENTATONIC SCALE
DECEMBER	HARMONISATION	1 HARMONISED MAJOR SCALE / ARPEGGIO
JANUARY	INFORMATION ABOUT FAMOUS GUITARISTS	MELODY NO 3 / 1 HARMONISED MINOR SCALE
FEBRUARY	INFORMATION ABOUT FAMOUS BANDS	RHYTHM PLAYING STUDY NO 3 / EAR TRAINING
MARCH	REVISION	REVISION





**Session: 2023-24**

**Subject – Tabla, Rhythm Instruments**

Month	Topic ( Theory & Practical )	Medium
<b>April</b>	Bengali new year activity & Advance Rhythm practice (Taali- Khali) & BolParan.	Tabla
<b>May</b>	RabindraJayanti activity & Advance Rhythm practice (Matra,Tali Khali, Laya, Chanda& Division).	Tabla
<b>June</b>	Advance Rhythm count practice & idea of different Taal (Single , Double & Triple Courting ), Kayda&Rela.	Tabla& Drums.
<b>July</b>	Advance Rhythm count practice & idea of different Taal (Single , Double , Triple & Quartet ), Kayda&Rela.	Various Percussions.
<b>August</b>	Independence activity, 4/4 count & TaalKaharwa, Rupak, Teora, JhaapTaal.	Tabla, Darabuka& Cajon.
<b>September</b>	Janmashtami Activity, TaalKaharwa&BhajanTheka (Bengali & Hindi), Laggi.	Tabla&Dholak
<b>October</b>	Durga Puja Activity, Dhaak Rhythm & Taal Dadra (Single /Double) 6/6 Chanda , Tukra.	Tabla, Darabuka.
<b>November</b>	3/4, 4/4,7/8 count & Drums Practice With Notation.	Percussions (Shakers)
<b>December</b>	Christmas activity, 3/4, 4/4,7/8 count & Drums Practice.	Drums & Percussions (Cajon)
<b>January</b>	Netaji Jayanti Activity, Republic Day Activity & 3/4, 4/4	Percussions (Tambourine)
<b>February</b>	Saraswati Puja Activity & Teen Taal, Addhya (Tukra, Chakkradar&Tihai)	Tabla
<b>March</b>	Holi Activity&TaalDandiya, Garwa.	Percussions (Tambourine,Kartaal)





**Session: 2023-24**

**Subject – Vocal**

Month	Topic	Sub Topic
April	<ul style="list-style-type: none"> <li>Nabobarsho(Bengali new year) related Bengali song</li> <li>RabindraSangeet for 25 she boishkakh</li> </ul>	<ul style="list-style-type: none"> <li>Pranobhoriyetrishahoriye</li> </ul>
May	<ul style="list-style-type: none"> <li>SaraswatiVandana(For annual program)</li> </ul>	<ul style="list-style-type: none"> <li>SaraswatiVandana composed by BirjuMaharajji</li> </ul>
June	<ul style="list-style-type: none"> <li>English classic song</li> </ul>	<ul style="list-style-type: none"> <li>Summer holiday</li> </ul>
July	<ul style="list-style-type: none"> <li>Patriotic song</li> </ul>	<ul style="list-style-type: none"> <li>Shatrangirangosaujjwalsapawan</li> </ul>
August	<ul style="list-style-type: none"> <li>Patriotic song</li> </ul>	<ul style="list-style-type: none"> <li>Shatragirangosaujjwalsapawan</li> </ul>
September	<ul style="list-style-type: none"> <li>English song on Autumn season</li> <li>Durgapuja related song</li> </ul>	<ul style="list-style-type: none"> <li>Autumn Days are</li> <li>Bhawanidayani/Bajlokaharalorbenu</li> </ul>
October	<ul style="list-style-type: none"> <li>Diwali song</li> </ul>	<ul style="list-style-type: none"> <li>Shree Ramchandrakripalu</li> </ul>
November	<ul style="list-style-type: none"> <li>English Diwali song</li> <li>Bengali prayer song</li> </ul>	<ul style="list-style-type: none"> <li>It's time for lighting the lamp</li> <li>Aloamaraloogo alloy bhubanbhora</li> </ul>
December	<ul style="list-style-type: none"> <li>Christmas carol</li> </ul>	<ul style="list-style-type: none"> <li>Up on the housetop</li> </ul>
January	<ul style="list-style-type: none"> <li>Patriotic song</li> </ul>	<ul style="list-style-type: none"> <li>kandho se miltehainkandhe</li> </ul>
February	<ul style="list-style-type: none"> <li>SaraswatiVandana</li> </ul>	<ul style="list-style-type: none"> <li>SarveswariJagadeswari/jai jai saraswatimaa</li> </ul>
March	<ul style="list-style-type: none"> <li>Holi song</li> <li>Revision</li> </ul>	<ul style="list-style-type: none"> <li>Biraj me dhoommachaye</li> </ul>







**Session: 2023-24**

**Subject – Artificial Intelligence**

MONTH	CHAPTER	CORE CONCEPTS
APRIL	Introduction to Artificial Intelligence (AI) -Excite	Session: Introduction to AI and setting up the context of the curriculum
		Ice Breaker Activity: Dream Smart Home idea • Learners to design a rough layout of floor plan of their dream smart home.
		Recommended Activity: The AI Game • Learners to participate in three games based on different AI domains. – Game 1: Rock, Paper and Scissors (based on data) – Game 2: Mystery Animal (based on Natural Language Processing - NLP) – Game 3: Emoji Scavenger Hunt (based on Computer Vision - CV)
	Introduction to Artificial Intelligence (AI) -Relate	Recommended Activity: • AI Quiz (Paper Pen/Online Quiz) Recommended Activity: To write a letter. Writing a Letter to one's future self • Learners to write a letter to self-keeping the future in context. They will describe what they have learnt so far or what they would like to learn someday
MAY	Introduction to Artificial Intelligence (AI) -Purpose	Session: • Introduction to UN Sustainable Development Goals Recommended Activity: Go Goals Board Game • Learners to answer questions on Sustainable Development Goals
	Introduction to Artificial Intelligence (AI) -Possibilities	Session: Theme-based research and Case Studies • Learners will listen to various case-studies of inspiring start-ups, companies or communities where AI has been involved in real-life. • Learners will be allotted a theme around which they need to search for present AI trends and have to visualise the future of AI in and around their respective theme. Recommended Activity: Job Ad Creating activity • Learners to create a job advertisement for a firm describing the nature of job available and the skill set required for it 10 years down the line. They need to figure out how AI is going to transform the nature of jobs and create the Ad accordingly.
<b>PT 1 EXAMINATION</b>		





JUNE	Introduction to Artificial Intelligence (AI) -AI Ethics	<p>Video Session: Discussing about AI Ethics Recommended Activity: Ethics Awareness • Students play the role of major stakeholders, and they have to decide what is ethical and what is not for a given scenario. Session: AI Bias and AI Access</p> <ul style="list-style-type: none"> <li>• Discussing about the possible bias in data collection</li> <li>• Discussing about the implications of AI technology</li> </ul>
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		<p>Recommended Activity: Balloon Debate</p> <ul style="list-style-type: none"> <li>• Students divide in teams of 3 and 2 teams are given same theme. One team goes in affirmation to AI for their section while the other one goes against it.</li> <li>• They have to come up with their points as to why AI is beneficial/ harmful for the society.</li> </ul>
JULY	AI PROJECT CYCLE: - Problem Scoping	<p>Session: Introduction to AI Project Cycle</p> <ul style="list-style-type: none"> <li>• Problem Scoping</li> <li>• Data Acquisition</li> <li>• Data Exploration</li> <li>• Modelling</li> <li>• Evaluation</li> </ul> <p>Activity: Brainstorm around the theme provided and set a goal for the AI project.</p> <ul style="list-style-type: none"> <li>• Discuss various topics within the given theme and select one.</li> <li>• List down/ Draw a mind map of problems related to the selected topic and choose one problem to be the goal for the project.</li> </ul>
		<p>Activity: To set actions around the goal.</p> <ul style="list-style-type: none"> <li>• List down the stakeholders involved in the problem.</li> <li>• Search on the current actions taken to solve this problem.</li> <li>• Think around the ethics involved in the goal of your project.</li> </ul> <p>Activity: Data and Analysis</p> <ul style="list-style-type: none"> <li>• What are the data features needed?</li> <li>• Where can you get the data?</li> <li>• How frequent do you have to collect the data?</li> <li>• What happens if you don't have enough data?</li> <li>• What kind of analysis needs to be done?</li> <li>• How will it be validated?</li> <li>• How does the analysis inform the action?</li> </ul>
	AI PROJECT CYCLE: -Data Acquisition	<p>Activity: Introduction to data and its types.</p> <ul style="list-style-type: none"> <li>• Students work around the scenarios given to them and think of ways to acquire data.</li> </ul>





	Introduction to Python	Session: <ul style="list-style-type: none"><li>• Introduction to Python language</li><li>• Introducing python programming and its applications Theory + Practical: Python Basics</li><li>• Students go through lessons on Python Basics (Variables, Arithmetic Operators, Expressions, Data Types - integer, float, strings, using print() and input() functions)</li></ul>
AUGUST		<ul style="list-style-type: none"><li>• Students will try some simple problem-solving exercises on Python Compiler.</li></ul>
	Self-Management Skills-I	
	ICT Skills-I	
	Entrepreneurial Skills-I	
REVISION		
PT-2 EXAMINATION		
SEPTEMBER	AI PROJECT CYCLE- Data Exploration	Recommended Activity: Let’s use Graphical Tools <ul style="list-style-type: none"><li>• To decide what kind of data is required for a given scenario and acquire the same.</li><li>• To select an appropriate graphical format to represent the data acquired.</li><li>• Presenting the graph sketched.</li></ul>
OCTOBER	AI PROJECT CYCLE- Modelling	Session: Decision Tree <ul style="list-style-type: none"><li>• To introduce basic structure of Decision Trees to students.</li></ul> Recommended Activity: Decision Tree <ul style="list-style-type: none"><li>• To design a Decision Tree based on the data given.</li></ul>
		Understand and visualise computer’s ability to identify alphabets and handwritings.
PT-3 EXAMINATION		
NOVEMBER	NEURAL NETWORK	Session: Introduction to neural network <ul style="list-style-type: none"><li>• Relation between the neural network and nervous system in human body</li><li>• Describing the function of neural network.</li></ul> Recommended Activity: Creating a Human Neural Network
		<ul style="list-style-type: none"><li>• Students split in four teams each representing input layer (X students), hidden layer 1 (Y students), hidden layer 2 (Z students) and output layer (1 student) respectively.</li><li>• Input layer gets data which is passed on to hidden layers after some processing. The output layer finally gets all information and gives meaningful information as output.</li></ul>





DECEMBER	PYTHON	Practical: Flow of control and conditions • Students go through lessons on conditional and iterative statements (if, for and while)
		• Students will try some basic problem-solving exercises using conditional and iterative statements on Python Compiler.
		Practical: Python Lists • Students go through lessons on Python Lists (Simple operations using list) • Students will try some basic problem-solving exercises using lists on Python Compiler.
JANUARY		Project
	REVISION	
FEBRUARY	ANNUAL EXAMINATION	





**Session: 2023-24**

**Subject – Computer**

MONTH	TOPIC	SUBTOPIC
APRIL	Computer Fundamentals	<ul style="list-style-type: none"> <li>• Types Of Computers</li> <li>• Characteristics of Computer</li> <li>• I/O Devices</li> </ul>
	Operating Systems	<ul style="list-style-type: none"> <li>• Understanding Kernel</li> <li>• Understanding Device Drivers, File Systems</li> </ul>
	Computer Software	<ul style="list-style-type: none"> <li>• System Software</li> <li>• Application Software</li> </ul>
	Basics of Networking	<ul style="list-style-type: none"> <li>• Types of Network</li> <li>• Components of a Network</li> <li>• Network Protocols, Transmission Media</li> </ul>
MAY	Introduction to the Internet	<ul style="list-style-type: none"> <li>• Basics of Internet</li> <li>• Internet Terminologies, Applications of Cloud Computing</li> </ul>
<b>PT-1 EXAMINATION</b>		
JULY	Basics of App Development	<ul style="list-style-type: none"> <li>• Concept of Apps</li> <li>• App Creation Process</li> <li>• Categories Of Apps</li> </ul>
	Safe Web Browsing	<ul style="list-style-type: none"> <li>• Identity Protection</li> <li>• Usage of Passwords</li> <li>• Protecting your privacy online</li> </ul>
JULY	Cyber Security	<ul style="list-style-type: none"> <li>• Defining Cyber Stalking</li> <li>• Handling Cybercrimes</li> <li>• Identifying Security Threats</li> <li>• Identifying Security Mechanism</li> </ul>
	Java – A Cup of Coffee (Level-1)	<ul style="list-style-type: none"> <li>• OOPs Concept</li> <li>• Introduction to Java Programming</li> </ul>







AUGUST	Storing and Operating on Data (Level-1)	<ul style="list-style-type: none"> <li>• Variables and Data Types</li> <li>• Types of Operators</li> </ul>
	Using Conditional Construct(Level-1)	<ul style="list-style-type: none"> <li>• Introduction to If-Else</li> <li>• If-Else If and Logical Operators</li> </ul>
	RevisionforPT-2 Exam	• RevisionforPT-2Examination
<b>PT-2 EXAMINATION</b>		
SEPTEMBER	Programming Using Loops (Level-1)	<ul style="list-style-type: none"> <li>• Pre-Tested Loops</li> <li>• Post-Tested Loops</li> <li>• Fixed-Execution Loops</li> <li>• Arrays</li> </ul>
	Creating Calculator Using Java(Level-2)	<ul style="list-style-type: none"> <li>• Revisiting Operators, Conditional Constructs and Loops</li> <li>• Introducing Functions</li> </ul>
OCTOBER	Enhancing Calculator (Level-2)	• Introducing Inheritance
	Working with Applet (Level-2)	• Introduction to Applets
	More on Applets	•Applets programs to draw shapes
	RevisionforPT-3	RevisionforPT-3
<b>PT-3EXAMINATION</b>		





NOVEMBER	Learning Scratch	<ul style="list-style-type: none"> <li>•Starting Scratch</li> <li>•Parts of Scratch User Interface</li> <li>•Creating an Account</li> <li>•Creating Simple Script</li> <li>•Repeating Commands</li> </ul>
DECEMBER	Continuation of More about Scratch	<ul style="list-style-type: none"> <li>•Understanding X-Y Pane</li> <li>•Exploring Motion Block</li> <li>•Exploring Pen Blocks</li> <li>•Drawing on the Stage</li> </ul>
	Word Processor	<ul style="list-style-type: none"> <li>•Basic Editing and Formatting</li> <li>•Bulleted and Numbered List</li> </ul>
JANUARY	Basics of Presentation	<ul style="list-style-type: none"> <li>•Creating the Base Presentation</li> <li>•Applying Theme</li> <li>•Setting Text Styles</li> <li>•Creating Visual Appearance</li> <li>•Adding Graphics</li> </ul>

