



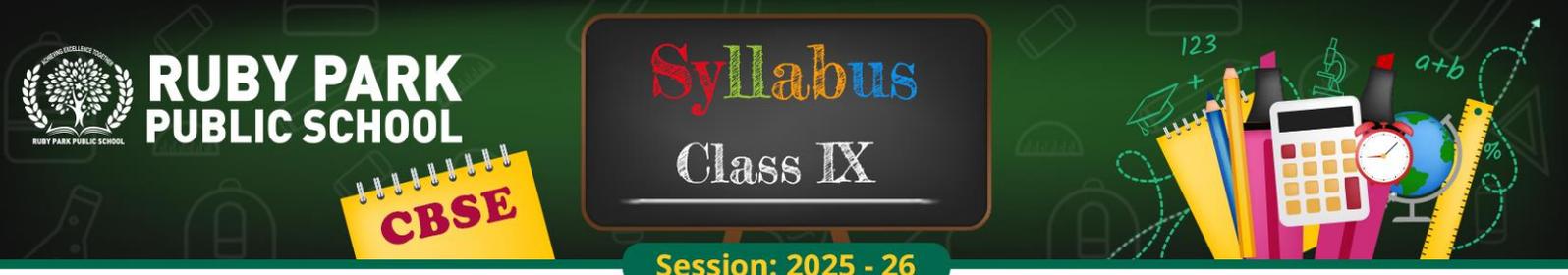
**RUBY PARK  
PUBLIC SCHOOL**

**Class IX**  
**Syllabus**

$H_2O$

$1 + 2 = 3$





**English**

MONTH	READING	LANGUAGE		LITERATURE
	MAIN COURSE BOOK	WRITING	GRAMMAR	LITERATURE READER
APRIL	An Exemplary Leader (Unit 1)	Speech	Verb Forms Non - Finite Verb Forms (Relevant exercises from Work Book)	How I Taught My Grandmother to Read (P)
			Tenses (Relevant exercises from Work Book)	
	Continued		Determiners (Relevant exercises from Work Book)	The Road Not Taken (v)
	A Burglary Attempt (Unit 1)	Dialogue Writing (100 words)	Subject Verb Concord (Relevant exercises from Work Book)	A Dog Named Duke (P)
MAY	Can You Know People You Haven't Met	(Diary Entry)	Modals (Relevant exercises from Work Book)	The Brook (v)
<b>PERIODIC TEST - 1</b>				
JUNE	The Final Fight (Unit 2), The Sound Of Shell (Unit 2)	Informal Letter (Revision) Formal Letter (Revision)	Sentences (Kinds) Transformation Comparison Nominalisation	The Man Who Knew Too Much (P)
JULY	Ordeal In The Ocean (Unit 2), The Indian Rhinoceros (Unit 3)	Notice Writing	Reported Speech Integrated Grammar Editing Omission Sentence Reordering	Villa For Sale (Play)
		Descriptive Paragraph (Event)		The Solitary Reaper (V)



<b>AUG</b>	Save Mother Earth (Unit 3)	Descriptive Paragraph (Person)	Connectors, Pronouns (Relevant exercises from Work Book)	Best Seller (P)
	Save the Tiger (Unit 3)	Process writing	Passive Voice (Relevant exercises from Work Book)	Best Seller (P)
<b>PERIODIC TEST - 2</b>				
<b>SEPT.</b>	Radio Show (Unit 4), Video Show (Unit 4)	Bio Sketch	Passive Voice	Keeping It From Harold (P)
<b>OCT.</b>	Bermuda Triangle (Unit 5), The Invisible Man (Unit 5)	E-mail	Preposition (Relevant exercises from Work Book)	Keeping It From Harold (P)- contd.  Oh, How I Looked After My Teeth
<b>NOV.</b>	The Tragedy of Bristone (Unit 5)	Magazine Article	Integrated Grammar	
	Harry Potter (Unit 5)	Newspaper report writing	Phrases-Clauses	The Seven Ages (V)
<b>PERIODIC TEST - 3</b>				
<b>DEC.</b>	Tom Sawyer, Children of India, Children and Computers (Unit 6)	Descriptive Paragraph (Place)	Phrases-Clauses	Song Of The Rain (V)
<b>JAN.</b>	Unit 6 - continued, Sports And Games (Unit 7)	(Revision)	Sample Papers	The Bishop's Candlesticks
<b>Revision</b>				



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# Syllabus

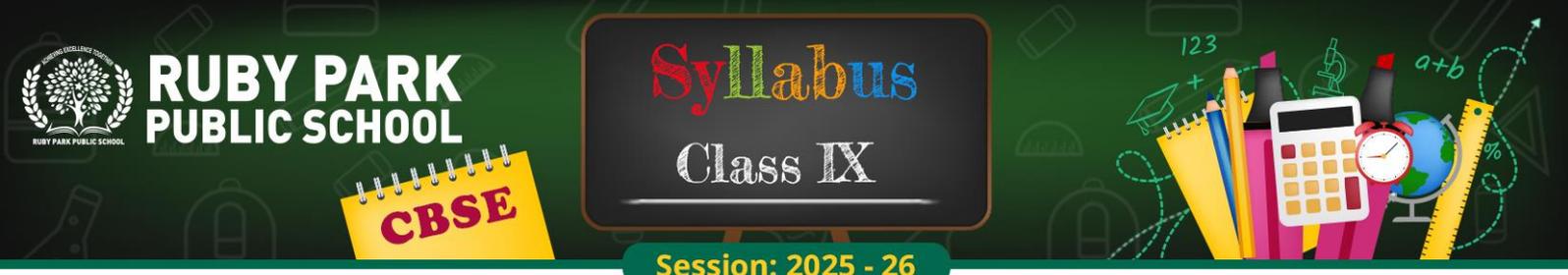
## Class IX

Session: 2025 - 26



<b>FEB</b>	<b>ANNUAL EXAMINATION</b>
<b>SYLLABUS FOR ANNUAL EXAMINATION</b>	
<b>ENTIRE SYLLABUS AS PRESCRIBED BY CBSE</b>	





**Mathematics**

MONTH	UNIT	TOPIC	SUB – TOPIC(S)
APRIL	1	Number system	Irrational numbers, Real numbers and their Decimal expansions, Representing Real Numbers on the Number line, Operations on Real Numbers, Laws of Exponents.
	3	Coordinate Geometry	Cartesian system, Plotting of a point.
	2	Linear Equation in Two variables	Linear equation, Solution of a Linear Equation, Graph of a Linear Equation in Two Variable.
MAY	2	Linear Equation in Two variables (continued)	Graph of a Linear Equation in Two Variable, Equations of lines parallel to the x-axis and the y-axis.
	4	Geometry	Construction of bisectors of line segments and angles of measure $60^\circ$ , $90^\circ$ , $45^\circ$ etc., equilateral triangles. Construction of a triangle given its base, sum/difference of the other two sides and one base angle.
JUNE	<b><u>PERIODIC TEST 1</u></b>		
JUNE	2	Polynomials	Polynomials in one variable, Zeroes of a polynomial, Remainder theorem, Factor theorem, Factorisation of polynomials.
	2	Polynomials (continued)	Algebraic Identities. (Only 2 to 3 classes to be used to complete this topic as a continuation from June)
	4	Lines & Angles	Basic terms and definitions, Intersecting and nonintersecting lines, pairs of angles, Parallel lines and transversal, lines parallel to the same line.



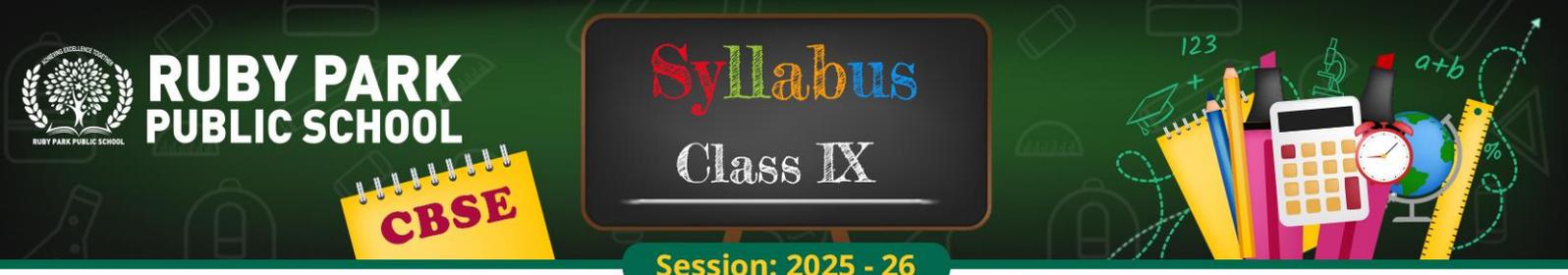
<b>JULY</b>	4	Triangles	Congruence of triangles, Criteria for congruence of triangle. Some properties of a triangle. Inequalities in triangles
<b>AUGUST</b>	5	Heron's Formula	Area of a triangle using Heron's formula; finding area of a quadrilateral(applications)
	4	Euclid's Geometry	Euclid's Definitions, Axioms and Postulates. Equivalent versions of Euclid's Fifth Postulate. (2 classes).PPT to be uploaded in SRM before summer recess.
<b>REVISION</b>			
<b><u>PERIODIC TEST 2</u></b>			
<b>SEPTEMBER</b>	6	Statistics	Bar Graphs, Histograms (with varying width), Frequency Polygon.
	6	Statistics	Probability: Empirical definition or frequency approach
	4	Quadrilaterals	Angle sum property of a Quadrilateral, Types of Quadrilaterals, Properties of a parallelogram, conditions for quadrilateral to be a parallelogram
<b>OCTOBER</b>	4	Quadrilaterals	Mid-Point theorem.
	4	Circles	Circle and related terms, Angle subtended by a Chord at a point, Perpendicular from the centre to a chord.
<b>END OF PERIODIC TEST 3 SYLLABUS</b>			
<b>OCTOBER</b>	4	Geometry	Review concept of area, recall area of a rectangle. (Prove) Parallelograms on the same base and between the same parallels have equal area. 2. (without proof) Triangles on the same base (or equal bases) and between the same parallels are equal in area.
<b>NOVEMBER</b>	4	Circles	Equal chords and their Distance from the centre, Angle subtended by an Arc of a Circle, Cyclic Quadrilateral



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	6	Statistics	Introduction to Statistics: Collection of data, presentation of data — tabular form, ungrouped / grouped data. Mean, median and mode of ungrouped data Probability: Empirical definition or frequency approach
<b>DECEMBER</b>	<b>PERIODIC TEST 3</b>		
<b>DECEMBER</b>	5	Surface Area and Volume	Surface areas and volumes of cubes, cuboids and right circular cylinders Surface Area of Right circular Cone, sphere and hemisphere.
<b>JANUARY</b>	5	Surface Area and Volume	Volume of Right circular Cone, sphere and hemisphere.
	<b>REVISION FOR ANNUAL EXAM</b>		
<b>Syllabus for Annual Examination: Entire syllabus as prescribed by CBSE</b>			



**Science (Physics)**

MONTH	UNIT	TOPIC	SUB TOPIC	PRACTICALS
APRIL	1	Motion	Distance and Displacement; Speed and velocity; Uniform and non- uniform acceleration.	
			Equation of motion, Numerical, Distance - time and Velocity - time graphs; Elementary idea of uniform circular motion; Numerical.	
MAY	1	Force and Newton's Laws of motion	Concept of force, balanced and unbalanced force.	
JUNE	<b>PERIODIC TEST- I</b>			
JUNE	2	Force and Newton's Laws of Motion.	First law of motion, Inertia and Mass; Linear momentum.	
			Newton's second law of motion; Mathematical formulation of Newton's second law of motion. Newton's third law of motion, action, and reaction forces.	
JULY		Gravitation	Gravitation, Universal laws of gravitation; Free fall; Acceleration due to gravity; Motion under the influence of gravity; Numerical problems	
AUGUST	<b>PERIODIC TEST -II</b>			



<b>AUGUST</b>	2	Gravitation	Mass and weight	
<b>SEPTEMBER</b>	3	Gravitation	Thrust and Pressure;	Determination of the density of solid (denser than water) by using a spring balance and a measuring cylinder.
<b>OCTOBER</b>	3	Gravitation	Archimedes' Principle; Buoyancy; Numerical problems.	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.
<b>NOVEMBER</b>	4	Work, Energy and Power	Work done by the force, $W = F \times s \cos(\theta)$ ; Concept of positive, negative and zero work done; Numerical Problems.	
			Energy, Kinetic and potential energy; Law of conservation of energy; Power; Numerical problems.	
<b>NOVEMBER-DECEMBER</b>	<b>PERIODIC TEST- III</b>			



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<b>DECEMBER</b>	5	Sound	Production of sound, Sound needs a material medium to travel; Nature of sound and its propagation in various media, speed of sound, Characteristic of sound, range of hearing.	Verification of the Laws of reflection of sound.
<b>JANUARY</b>	6	Sound	Reflection of sound -Echo, Reverberation; Numerical problems	Determination of the speed of a pulse propagated through a stretched string/ slinky (helical spring).
				<b>REVISION</b>
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>			

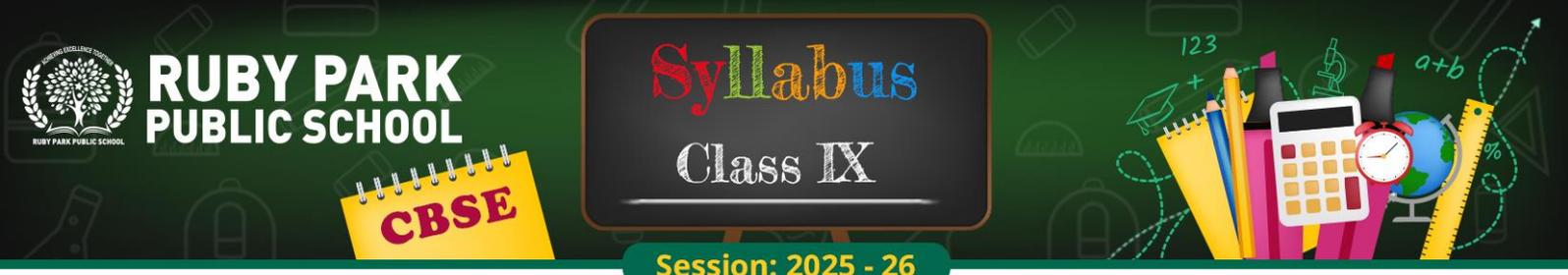
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MONTH	UNIT	TOPIC	SUB TOPIC	PRACTICAL EXPERIMENT
APRIL	1	Matter in our surroundings	Physical nature of matter, characteristics of particles of matter (kinetic theory of matter), states of matter, change of states of matter, effect of pressure and impurities on m.p. of solids and b.p. of liquids, latent heat of fusion and latent heat of vaporization.	To determine the m.p. of ice and b.p. of distilled water.
MAY	1	Matter in our surroundings	Advantages of high latent heat of fusion of ice and high latent heat of vaporization of water, heating and cooling curves.	
JUNE	<b>PERIODIC TEST-I</b>			
	1	Matter in our surroundings	Evaporation, factors affecting evaporation, difference between evaporation and boiling, cooling effect of evaporation and its applications.	
JULY	2	Is matter around us pure?	Mixtures, types of mixtures, daily life examples of mixtures and identifying the components of the mixtures. Solutions, properties of solutions, concentration of solutions, numericals on mass by mass % and mass by volume%.	To study the properties of solutions, suspensions and colloids.
				To prepare and study a mixture and a compound of iron & sulfur.
AUGUST	2	Is matter around us pure?	Numericals on volume by volume %. Suspensions, properties of suspensions, colloids, properties of colloids, types of colloids, applications. Physical and chemical changes.	To study the types of reactions and classify them as physical and chemical changes.
				<b>REVISION OF PERIODIC TEST-II</b>
	<b>PERIODIC TEST-II</b>			



<b>SEPTEMBER</b>			
	3	Atoms and molecules	Laws of chemical combinations, Dalton's atomic theory.
<b>OCTOBER</b>	3	Atoms and molecules	Atomic size, symbols, atomic mass, a.m.u., molecules, atomicity, types, ions, radicals, chemical formulae, framing of formulae, molecular mass, formula unit mass.
<b>NOVEMBER</b>	4	Structure of the atom	Charged particles in matter, canal ray, structure of the atom, Thomson's model and its limitations, Rutherford's Gold foil experiment. Rutherford's model and its limitation.
	<b>PERIODIC TEST-III</b>		
<b>DECEMBER</b>			
	4	Structure of the atom	Bohr's atomic model. Neutrons, electronic distribution in atoms, atomic structure diagrams, valency, atomic number and mass number.
<b>JANUARY</b>	4	Structure of the atom	Isotopes, fractional atomic mass, application of isotopes, isobars.
	<b>REVISION FOR ANNUAL EXAMINATION</b>		
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>		

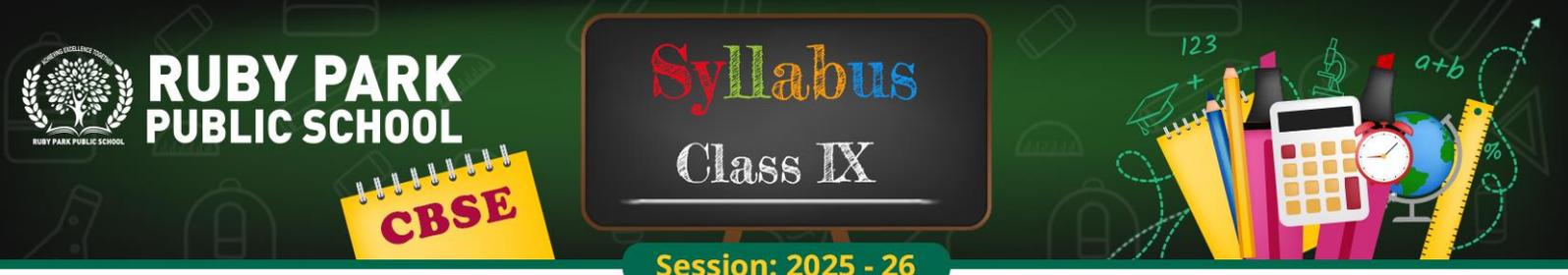


## Science (Biology)

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 - structure and function.</li> </ul>	
JUNE	<b>PERIODIC TEST 1</b>			
JUNE	1	The Fundamental Unit of Life	<ul style="list-style-type: none"> <li>Cell organelles and cell division.</li> </ul>	Identification of Parenchyma, Collenchyma and Sclerenchyma tissues of plants.  Identification of Striated, Smooth and cardiac muscle fibers and nerve cells in animals from prepared slides.
JULY	2	Tissues	<ul style="list-style-type: none"> <li>Plant tissues (Meristematic and Permanent tissues)</li> </ul>	
AUGUST			<ul style="list-style-type: none"> <li>Animal tissues (Epithelial tissues)</li> <li>Animal tissues (Connective tissues, Muscular and Nervous tissue)</li> </ul>	
AUGUST-SEPTEMBER	<b>PERIODIC TEST 2</b>			
SEPTEMBER	3	Improvement in Food	<ul style="list-style-type: none"> <li>Improvement in crop yields</li> <li>Crop variety</li> </ul>	

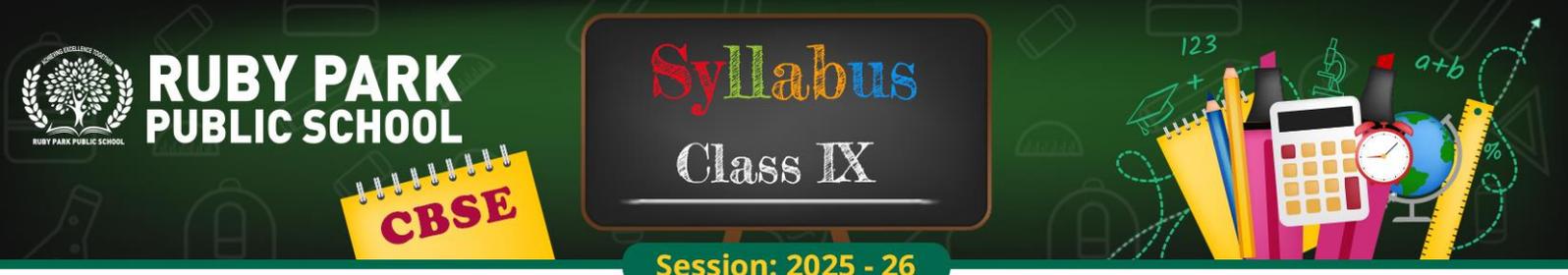


		Resources	improvement	
<b>OCTOBER</b>			<ul style="list-style-type: none"> <li>• Crop production management</li> <li>• Crop protection management</li> <li>• Animal husbandry</li> </ul>	
<b>NOVEMBER</b>			<p>REVISION FOR PERIODIC TEST 3</p>	
<b>NOVEMBER - DECEMBER</b>	<b>PERIODIC TEST 3</b>			
<b>DECEMBER</b>	3	HEALTH AND DISEASES	To be taught in class according to the study material provided by the CBSE	
<b>JANUARY</b>			Formative assessment only	
<b>JANUARY</b>	<b>REVISION FOR ANNUAL EXAMINATION</b>			
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>			
<b>SYLLABUS FOR ANNUAL EXAMINATION- ENTIRE SYLLABUS AS PER CBSE GUIDELINES</b>				



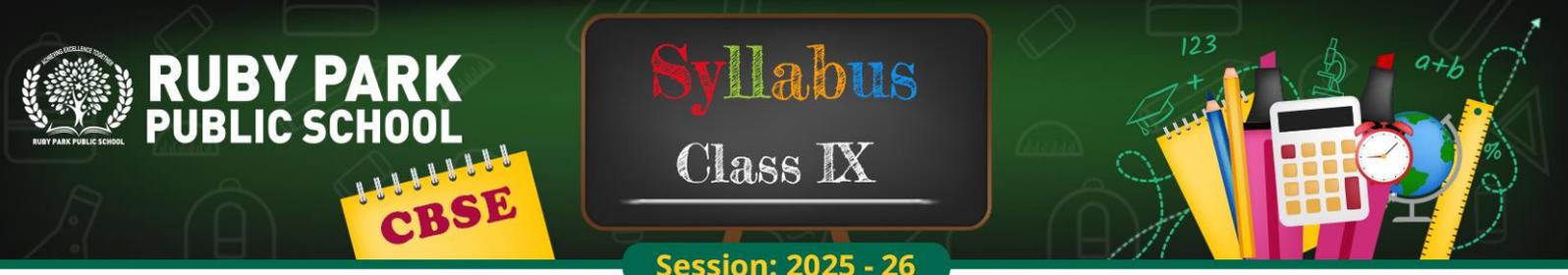
**Social Science (History & Political Science)**

MONTH	UNIT	CHAPTER	SUB -TOPIC
APRIL	1	The French Revolution	French Society During the Late 18th Century
			The outbreak of the Revolution;
			France abolishes Monarchy and Becomes a Republic
			Did Women have a Revolution?
			The Abolition of Slavery
			The Revolution and Everyday life.
MAY	2	What Is Democracy? Why Democracy	What is Democracy?
			Features of Democracy
<b>PERIODIC TEST 1 (JUNE)</b>			
JUNE	2	What Is Democracy? Why Democracy	Why Democracy?
			Broader Meaning of Democracy
JUNE/JULY	3	Socialism In Europe And Russian Revolution	The Age of Social Change
			The Russian Revolution
			The February Revolution in Petrograd
			What Changed in October? The Global influence of the Russian Revolution and the U.S.S.R.
JULY	4	Electoral Politics	Why Elections?
			What is our system of Elections?
			What makes Elections in India Democratic?
AUGUST	5	Pastoralists In The Modern World	Pastoral Nomads and their Movements
			Colonial Rule and Pastoral Life
			Pastoralism in Africa
<b>PERIODIC TEST 2 (SEPTEMBER)</b>			
SEPTEMBER	6	Constitutional Design	Democratic Constitution in South Africa



			Why do we need a Constitution?
			Making of the Indian Constitution
<b>OCTOBER</b>	7	Nazism And The Rise Of Hitler	Birth of Weimer Republic
			Hitler's Rise to Power
			The Nazi Worldview
			Youth in Nazi Germany
			Ordinary people and Crimes Against Humanity.
<b>NOVEMBER</b>	8	Forest Society And Colonialism	Why Deforestation?
			The Rise of Commercial Forestry
			Rebellion in the Forest
			Forest Transformations in Java
			Chapter to be assessed as Inter disciplinary project with Geography.
<b>PERIODIC TEST 3 (DECEMBER)</b>			
<b>NOVEMBER</b>	9	Working Institutions	How is the major policy decision taken?
			Parliament
			Political Executive
			Judiciary
<b>DECEMBER- JANUARY</b>	10	Democratic Rights	Life without Rights
			Rights in a Democracy
			Rights in the Indian Constitution
			Expanding the Scope of Rights
<b>REVISION FOR ANNUAL EXAMINATION</b>			
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>		

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**Social Science (Geography)**

MONTH	UNIT	TOPICS / CHAPTERS	SUBTOPICS
APRIL	1	India: Size And Location	<ul style="list-style-type: none"> <li>• Location</li> <li>• Size</li> <li>• India and the World</li> <li>• India's Neighbours</li> </ul>
	2	India: Physical Features	<ul style="list-style-type: none"> <li>• Major Physiographic Divisions</li> </ul>
MAY	2	India: Physical Features	<ul style="list-style-type: none"> <li>• The Himalayan Mountains</li> <li>• The Northern Plain</li> </ul>
JUNE	<b>PERIODIC TEST 1</b>		
JUNE	2	INDIA: Physical Features	<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>• Concept</li> <li>• Drainage Systems in India</li> <li>• The Himalayan Rivers- Ganga and Brahmaputra River System</li> <li>• The Peninsular Rivers- Narmada Basin, Tapti Basin, Godavari Basin, Mahanadi Basin, Krishna Basin, Kaveri Basin</li> <li>• Lakes</li> <li>• Role of Rivers in the Economy</li> <li>• River Pollution</li> </ul>
AUGUST	4	India: Climate	Concept, Climatic Control, Factors influencing India's Climate
AUGUST	<b>REVISION FOR PERIODIC TEST 2</b>		
AUGUST-SEPTEMBER	<b>PERIODIC TEST 2</b>		



<b>SEPTEMBER</b>	4	India: Climate	The Seasons - Cold Weather Season, Hot Weather Season, Advancing Monsoon, Retreating/Post Monsoons • Distribution of Rainfall • Monsoon as a unifying bond
<b>OCTOBER</b>	5	India: Natural Vegetation And Wildlife	FOR INTER- DISCIPLINARY PROJECT • Types of Vegetation – Tropical Evergreen Forests, Tropical Deciduous Forests, Thorn Forests and Shrubs, Montane Forests, Mangrove Forests ONLY MAP POINTING TO BE EVALUATED IN THE ANNUAL EXAMINATION.
<b>NOVEMBER</b>	6	India: Population	Population size and distribution • India’s Population Distribution by Numbers and Density
<b>NOVEMBER-DECEMBER</b>	<b>PERIODIC TEST 3</b>		
<b>DECEMBER</b>	6	India: Population	• Population Growth and Processes of Population Change
<b>JANUARY</b>	<b>REVISION FOR ANNUAL EXAMINATION</b>		
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**Economics**

MONTH	UNIT	TOPICS	SUB TOPICS
APRIL	1	The Story of Palampur	(THE ENTIRE CHAPTER TO BE ASSESSED IN PERIODIC ASSESSMENT ONLY) Overview Organization of production
MAY	1	The Story of Palampur	Farming in Palampur Non-Farm activities: Dairy, Shopkeepers, Transport and Small-scale manufacturing.
JUNE	<b>PERIODIC TEST 1</b>		
JUNE	2	People as a Resource	Overview Economic activities by men and women
JULY	2	People as a Resource	Quality of Population Unemployment
AUGUST	3	Poverty as a Challenge	Overview Two typical cases of poverty Poverty as seen by Social Scientists Poverty Estimates Vulnerable Groups Interstate disparities
AUGUST	<b>REVISION FOR PERIODIC TEST 2</b>		
AUGUST- SEPTEMBER	<b>PERIODIC TEST 2</b>		
SEPTEMBER	3	Poverty as a Challenge	Global poverty scenario Causes of Poverty
OCTOBER	3	Poverty as a Challenge	Anti-Poverty Measures The Challenges ahead

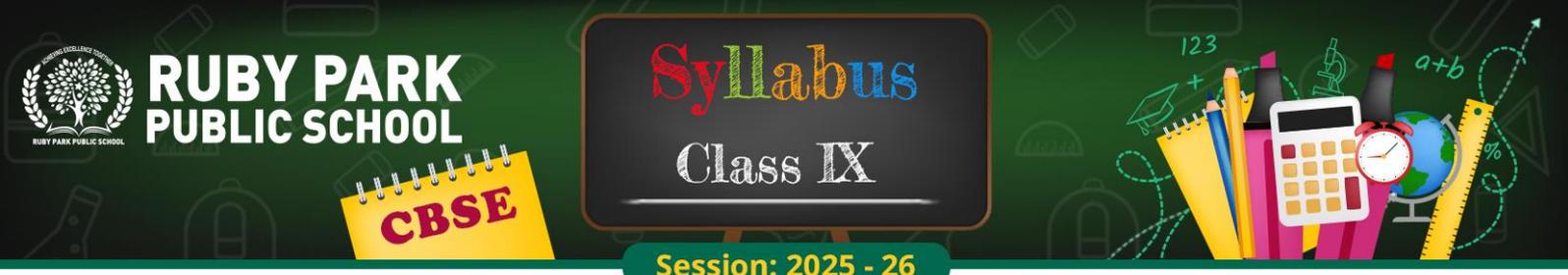


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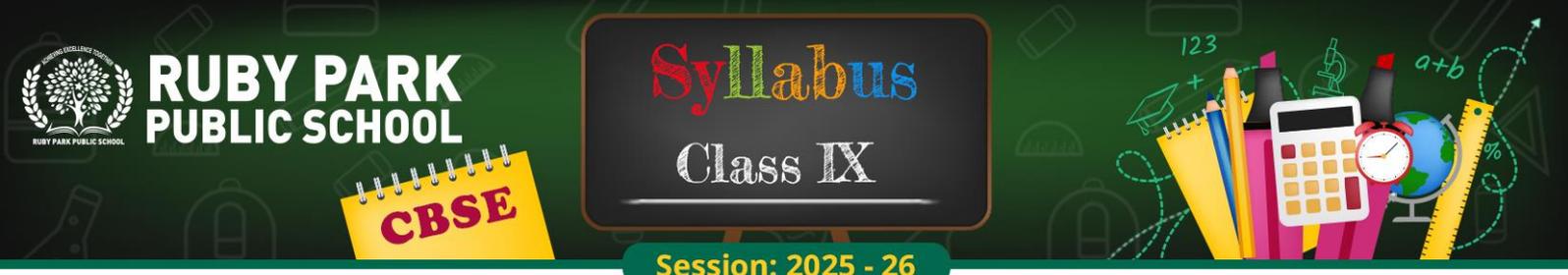
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<b>NOVEMBER</b>	4	Food Security in India	Overview What is Food Security? Why Food Security? Who are food insecure? Food Security in India What is Buffer Stock?  What is the Public Distribution System? Current Status of Public Distribution System Role of Cooperatives in food security
<b>NOVEMBER- DECEMBER</b>	<b>PERIODIC TEST 3</b>		
<b>DECEMBER</b>	4	Food Security in India	What is Buffer Stock? What is the Public Distribution System? Current Status of Public Distribution System Role of Cooperatives in food security
<b>JANUARY</b>	<b>Revision</b>		
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>		



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

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

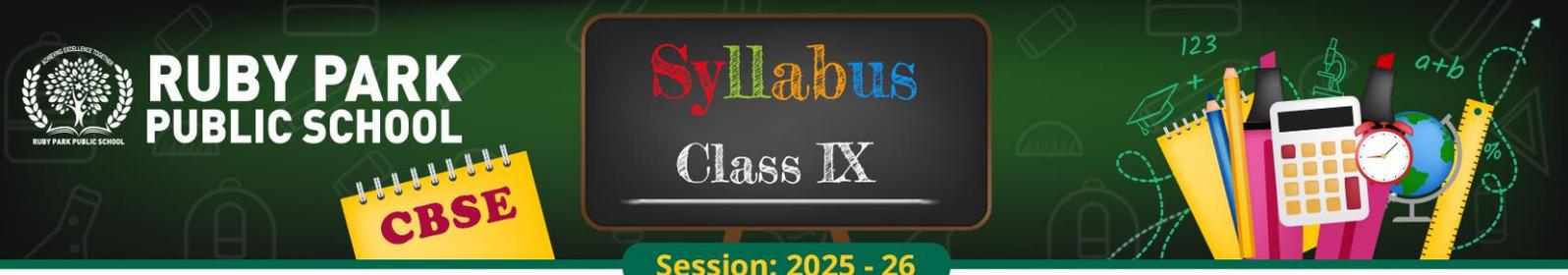


## 2<sup>nd</sup> Language (Bengali)

MONTH	LANGUAGE	LITERATURE
APRIL	নির্মিতি - বোধ পরীক্ষণ  ব্যাকরণ - স্বরসন্ধি	দাম (গদ্য)
MAY	নির্মিতি - প্রতিবেদন	খেয়া (পদ্য)
JUNE	<b>PERIODIC TEST - 1</b>	
	ব্যাকরণ - বাক্য পরিবর্তন (অর্থগত)	ইলিয়াস (গদ্য)  ব্যাথার বাঁশি (কবিতা)  আম আঁটির ভেঁপু - প্রথম - পঞ্চম অধ্যায় (সহায়ক পাঠ)
JULY	ব্যাকরণ - সমাস (দ্বিগু , তৎপুরুষ , বহুব্রীহি)  নির্মিতি - বিজ্ঞপ্তি	চিঠি (গদ্য)  আম আঁটির ভেঁপু - ষষ্ঠ - দশম অধ্যায় (সহায়ক পাঠ)
AUGUST	<b>REVISION</b>	
	<b>PERIODIC TEST - 2</b>	
SEPTEMBER	ব্যাকরণ - সমাস (পুনরালোচনা)	জন্মভূমি আজ (কবিতা)
OCTOBER	ব্যাকরণ - স্বরসন্ধি  নির্মিতি - প্রতিবেদন	সাহিত্য- ছুটি (গদ্য)  আম আঁটির ভেঁপু - একাদশ - পঞ্চদশ



		অধ্যায় (সহায়ক পাঠ)
<b>NOVEMBER</b>	ব্যাকরণ - শব্দ ও বাক্যগত অশুদ্ধি সংশোধন	এই জীবন (কবিতা)
	<b>PERIODIC TEST - 3</b>	
<b>DECEMBER</b>	ব্যাকরণ - সমাস বাক্য পরিবর্তন (অর্থগত)	আম আঁটির ভেঁপু - ষোড়শ - উনবিংশ অধ্যায়
<b>JANUARY</b>	<b>REVISION</b>	
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>	



## Computer

<u>MONTH</u>	<u>UNIT</u>	<u>TOPIC</u>	<u>SUB- TOPIC</u>
<b>APRIL</b>	<b>1.</b>	Computer Fundamentals	Types of computers , Applications of computers.
	<b>2.</b>	Operating Systems	Understanding Kernel. Identifying File Systems.
	<b>3.</b>	Computer Software	Types of Software, Language Processor.
	<b>4.</b>	Basics of Networking	Identifying Network Devices And Protocols. Different Transmission Medias.
<b>MAY</b>	<b>5.</b>	Introduction to the Internet	Internet Technologies, Cloud Computing.
	<b>REVISION</b>		
<b>JUNE</b>	<b>PERIODIC TEST 1</b>		
<b>JUNE</b>	<b>6.</b>	Basics of Multimedia	Animation, Identifying Various Multimedia File Formats.
<b>JULY</b>	<b>7.</b>	Basics of App Development	App Creation Process, Different Types Of App.
	<b>8.</b>	Safe Web Browsing	Identity Protection, Usage of Passwords.
	<b>9.</b>	Cyber Security	Handling Cyber Crimes.
	<b>10.</b>	Java – A Cup of Coffee	Introduction to OOPs Concepts, Java Programming , Creating a Basic Java Program using Class and main() function, Compiling and Executing the program.



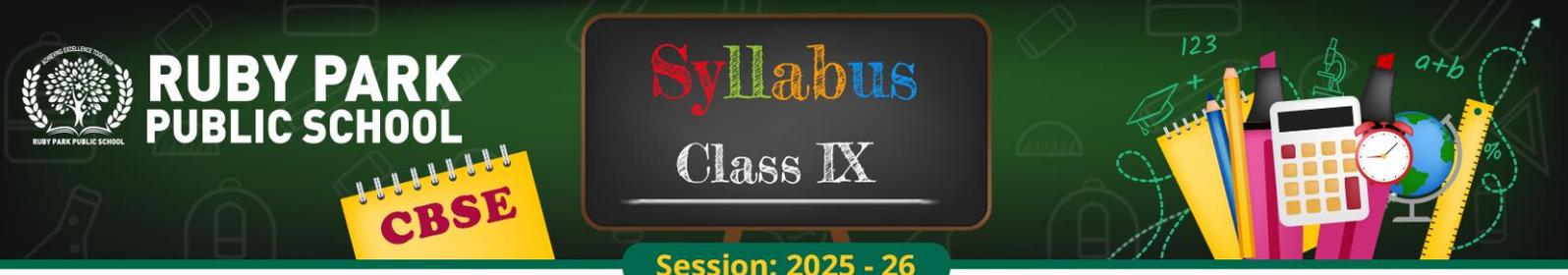
<b>AUGUST</b>	<b>11.</b>	Storing and Operating on Data	Variables and Data Types using user defined functions, Introduction to Operators, Using Arithmetic Operators, and Using Relational Operators.
	<b>12.</b>	Using Conditional Constructs.	Using If...Else Constructs, Using If...Else If, Using Logical Operators.
<b>AUGUST</b>	<b>REVISION FOR PERIODIC TEST -2</b>		
<b>AUGUST - SEPTEMBER</b>	<b>PERIODIC TEST – 2</b>		
<b>SEPTEMBER</b>	<b>13.</b>	Programming Using Loops	Importance of Loops ,Types of loops - While, Do While & For, Difference between While and Do While Loops , Java Program to use While Loop, Do While Loop, For Loop, Arrays.
	<b>14.</b>	Creating Calculator Using Java	Revisiting Operators, Conditional Constructs, and Loops, Functions, Exception Handling.
	<b>15.</b>	Enhancing Calculator	Inheritance , Function Overloading
	<b>16.</b>	Working with Applet	Life cycle of Java Applets , Sample output to demonstrate Applets, An Applet program to display a string using drawString() method.
<b>OCTOBER</b>	<b>17.</b>	More on Applet	Applet Program to use Font class and setting background colours, Applet program to draw Shapes using drawLine, drawRect and drawOval functions.



<b>NOVEMBER</b>	<b>18.</b>	Learning Scratch	Scratch programming that enables to create animation, stories, game & music, How to share online scratch project , How to avoid complex code , Script can be created by dragging the blocks , Repeats blocks to repeat instructions for required number of times.
	<b>19.</b>	More About Scratch	Move the scratch mascot to the desired point.
<b>NOVEMBER - DECEMBER</b>	<b>PERIODIC TEST - 3</b>		
<b>DECEMBER</b>	<b>19.</b>	(Continuation) More About Scratch	Drawing various shapes. How to modify pen block features.
<b>JANUARY</b>	<b>20.</b>	Word Processor	Basic Editing And Formatting, Bulleted and Numbered Lists.
	<b>23.</b>	Basics of Presentation	Creating the Base Presentation , Changing the Visual Appearance.
	<b>25.</b>	Storing Data Efficiently	Formatting Cell Data, Formatting Numbers and Date Values.
	<b>26.</b>	Exploring Excel Formulas	Performing Simple Calculations, Performing Complex Calculations.
	<b>27.</b>	Using Functions	Using Functions to Perform Basic Calculations, Using Functions to Analyze Data
	<b>28.</b>	Data Analysis And Representation	Applying Conditional Formatting, Analyzing and Presenting Data



	29.	Special Coverage Artificial Intelligence  AI Excite,  AI Relate	To know about the term Artificial Intelligence (AI) • To identify and appreciate Artificial Intelligence (AI), To describe its applications in life. Relate, apply and reflect on the Human-Machine Interactions through AI Games. To identify and interact with the three domains of AI: Data, Computer Vision and Natural Language Processing
<b>JANUARY</b>	<b>REVISION FOR ANNUAL EXAMINATION</b>		
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>		



## Artificial Intelligence

MONTH	CHAPTER	CORE CONCEPTS
<b>APRIL</b>	AI REFLECTION	<ul style="list-style-type: none"> <li>● To identify and appreciate Artificial Intelligence and describe its applications in daily life.</li> <li>● To recognize and relate with the three realms of AI: Computer Vision, Data Statistics and Natural Language Processing.</li> </ul>
	AI PROJECT CYCLE	<ul style="list-style-type: none"> <li>● Problem Scoping</li> <li>● Data Acquisition</li> <li>● Data Exploration</li> <li>● Modeling</li> <li>● Evaluation</li> <li>● Deployment</li> </ul>
	AI ETHICS	<ul style="list-style-type: none"> <li>● Reflect on the ethical issues around AI.</li> <li>● Awareness around AI bias and AI access.</li> <li>● Advantages and disadvantages of Artificial Intelligence.</li> </ul>
<b>MAY</b>	Communication Skills - I	
<b>PERIODIC TEST 1</b>		
<b>JUNE</b>	Data Literacy	<ul style="list-style-type: none"> <li>● <b>Basics of Data literacy</b></li> </ul>
		<ul style="list-style-type: none"> <li>● Introduction to Data Literacy</li> <li>● Impact of data Literacy</li> <li>● How to become Data Literate?</li> <li>● What are data security and privacy? How are they related to AI?</li> <li>● Best Practices for Cyber Security</li> </ul>



		<p><b>Acquiring Data, Processing, and Interpreting Data</b></p> <ul style="list-style-type: none"> <li>Types of data</li> <li>Data Acquisition/Acquiring Data</li> <li>Best Practices for Acquiring Data</li> <li>Features of data and Data Preprocessing</li> <li>Data Processing and Data Interpretation</li> <li>Types of Data Interpretation</li> <li>Importance of Data Interpretation</li> </ul>
	<b>Self - management Skills - I</b>	
<b>JULY</b>	Introduction to Python	<ul style="list-style-type: none"> <li>Introduction to Python language Variables, Arithmetic Operators, Expressions, Data Types - integer, float, strings, using print() and input() functions</li> <li>Simple problem-solving exercises on Python Compiler.</li> </ul>
<b>AUGUST</b>	Introduction to Python	<ul style="list-style-type: none"> <li>Conditional Statements (if – else)</li> </ul>
<b>REVISION</b>		
<b>PERIODIC TEST 2</b>		
<b>SEPTEMBER</b>	MATH FOR AI (STATISTICS & PROBABILITY)	<b>Importance of Math for AI</b>
		<ul style="list-style-type: none"> <li>Finding Patterns in Numbers and images.</li> <li>Uses of Math -</li> <li>Statistics</li> <li>Linear Algebra</li> <li>Probability</li> <li>Calculus</li> </ul>
		<b>Statistics</b>
		<ul style="list-style-type: none"> <li>Definition of Statistics</li> <li>Applications</li> <li>Disaster Management</li> <li>Applications (Sports, Diseases Prediction, Weather Forecast)</li> </ul>
		<b>Introduction to Probability and its Applications</b>



		<ul style="list-style-type: none"> <li>• How to calculate the probability of an event</li> <li>• Types of events</li> <li>• Concept of Probability using a relatable example.</li> <li>• Applications (Sports, Weather Forecast, Traffic Estimation)</li> </ul>
<b>OCTOBER</b>	<b>Information and Communication Technology Skills - I</b>	
	Introduction to Python	Flow of control and conditions (for, while)
<b>NOVEMBER</b>	Generative AI	<ul style="list-style-type: none"> <li>• Introduction to Generative AI</li> <li>• Generative AI vs Conventional AI</li> <li>• Types of Generative AI</li> <li>• Examples of Generative AI</li> <li>• Benefits of using Generative AI</li> <li>• Limitations of using Generative AI</li> <li>• Ethical considerations of using Generative AI</li> </ul>
<b>PERIODIC TEST 3</b>		
<b>DECEMBER</b>	Entrepreneurial Skills-I	
	Green Skills-I	
<b>JANUARY</b>	Introduction to Python	<ul style="list-style-type: none"> <li>• Python Lists</li> <li>• Simple operations using list</li> </ul>
<b>REVISION</b>		
<b>FEBRUARY</b>	<b>ANNUAL EXAMINATION</b>	