

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS 9

SUBJECT MATHS

<p><b>SUBJECT-MATHS</b></p> <p><b>CLASS -9</b></p> <p><b>SUBJECT TEACHER</b></p> <p><b>(KARAN KUMAR)</b></p>	<p><b>TERM AND MONTH-WISE SPLIT-UP</b></p> <p><b>SYLLABI OF CLASS – IX FOR THE SESSION</b></p> <p><b>(2025-2026)</b></p>	<p><b>Key Terms and Concept</b></p>
<p><b>APRIL</b></p>	<p style="text-align: center;"><b>Chapter/Sub-Topics</b></p> <p><b>Unit I: Number System</b></p> <p>REAL NUMBERS</p> <ol style="list-style-type: none"> <li>1. Review of representation of natural numbers, integers, and rational numbers on the number line. Rational numbers as recurring/terminating decimals. Operations on real numbers.</li> <li>2. Examples of non- recurring/non terminating decimals. Existence of non- rational numbers (irrational numbers) such as, <math>\sqrt{2}</math> and <math>\sqrt{3}</math> and their representation on the number line.</li> </ol> <p>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> <ol style="list-style-type: none"> <li>3. Definition of nth root of a real number.</li> <li>4. Rationalization (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 combinations) where x and y are natural number and a and b are integers.</li> <li>5.) Recall 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.)</li> </ol>	<ul style="list-style-type: none"> <li>● Classification of numbers</li> <li>● Representation</li> <li>● Real Line</li> <li>● Rationalization</li> </ul> <p>Exponents (<math>n^{\text{th}}</math> root)</p>

<p><b>APRIL</b></p>	<p><b>UNIT II: ALGEBRA</b></p> <p><b>1.) POLYNOMIALS:</b></p> <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</math>, <math>a \neq 0</math> where a, b and c are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities.</p> <p>. Verification of identities:  <math>(x+y+z)^2 = x^2 + y^2 + z^2 + 2xy + 2yz + 2zx</math>.</p> <p><math>(x \pm y)^3 = x^3 \pm y^3 \pm 3xy(x \pm y)</math></p> <p><math>x^3 \pm y^3 = (x \pm y)(x^2 \mp xy + y^2)</math>  <math>x^3 + y^3 + z^3 - 3xyz = (x+y+z)(x^2 + y^2 + z^2 - xy - yz - zx)</math>  and their use in factorization of polynomials.</p>	<ul style="list-style-type: none"> <li>Polynomial</li> <li>Coefficient</li> <li>Variable</li> <li>Degree of polynomial</li> <li>Factors</li> <li>Remainders</li> </ul> <p>Factorisation Identity</p>
<p><b>APRIL</b></p>	<p><b>2. LINEAR EQUATIONS IN TWO VARIABLES:</b></p> <p>1.) Recall of linear equations in one variable.  2.) Introduction to the equation in two variables. Focus on linear equations of the type <math>ax+by+c=0</math></p> <p>Explain that a linear equation in two variables has infinitely many solutions and justify their being written as ordered pair of real numbers, plotting them and showing that they lie on a line.</p>	<ul style="list-style-type: none"> <li>Linear Equation</li> <li>Ordered pair Infinite solutions</li> </ul>
<p><b>MAY</b></p>	<p><b>UNIT III: COORDINATE GEOMETRY:</b></p> <p>1.) The Cartesian plane, coordinates of a point,  2.) Names and terms associated with the coordinate plane, notations</p>	<ul style="list-style-type: none"> <li>Co-ordinates</li> <li>Cartesian Plane</li> </ul> <p>Notations</p>

MAY	<p><b>UNIT IV: GEOMETRY INTRODUCTION TO EUCLID'S GEOMETRY</b></p> <p>1.) 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.</p> <p>2.) The five postulates of Euclid. Showing the relationship between axiom and theorem, for example: (Axiom)</p> <p>a.) Given two distinct points, there exists one and only one line through them. (Theorem)</p> <p>b.) (Prove) Two distinct lines cannot have more than one point in common.</p>	<ul style="list-style-type: none"> <li>• Geometry</li> <li>• Notions</li> <li>• Axioms</li> <li>• Postulates</li> </ul> <p>Theorem</p>
JULY	<p><b>1. LINES AND ANGLES</b></p> <p>1. (Motivate) If a ray stands on a line, then the sum of the two adjacent angles so formed is <math>180^\circ</math> and the converse.</p> <p>2. (Prove) If two lines intersect, vertically opposite angles are equal.</p> <p>3. (Motivate) Lines which are parallel to a given line are parallel.</p>	<ul style="list-style-type: none"> <li>• Transversal</li> <li>• Parallel lines</li> <li>• Adjacent angles</li> <li>• Vertically opposite angles</li> <li>• Alternate interior angles</li> </ul> <p>Co interior angles</p>
JULY	<p><b>TRIANGLES :</b></p> <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>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>	<ul style="list-style-type: none"> <li>• Congruent</li> <li>• SSS</li> <li>• ASA</li> <li>• SAS</li> <li>• RHS</li> </ul> <p>complementary and supplementary angles.</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>	
<p><b>AUGUST</b></p>	<p><b>QUADRILATERALS AND PARALLELOGRAM:</b></p> <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>	<ul style="list-style-type: none"> <li>• Quadrilateral</li> <li>• Parallelogram m</li> <li>• Opposite sides and angles</li> </ul> <p>Diagonals</p>
<p><b>(SEPTEMBER-OCTOBER)</b></p> <p><b>1<sup>ST</sup> TERM EXAM</b></p> <p><b>REVISION</b></p>	<p><b>CIRCLES:</b></p> <p>1.) (Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse.</p> <p>1.) (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>2.) (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the center (or their respective centers) and conversely.</p> <p>3.) (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>4.) (Motivate) Angles in the same segment of a circle are equal.</p> <p>5.) (Motivate) If a line segment joining two points subtends equal angle at two other points lying on the same side of the line</p>	<ul style="list-style-type: none"> <li>• Chords</li> <li>• Segment</li> <li>• Sector</li> <li>• Central angle</li> <li>• Cyclic quadrilateral</li> <li>• Bisect</li> </ul> <p>Arc</p>

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS 9

SUBJECT ENGLISH

MONTH	LITERATURE	GRAMMAR	ASSIGNMENT/ART INTEGRATED WORK
APRIL	Beehive – 1. The Fun They Had 2. The Sound Of Music – I Poem – The Road Not Taken Moment – 1. The Lost Child	Determiners	Project – Five Modern/Technical Tools/Equipment and their usage.
MAY	Beehive – 2. The Sound Of Music – II Poem – Wind Moment – The Adventure Of Toto	Tenses	
JUNE	Beehive – A truly Beautiful Mind Poem – Rain On The Roof Moment – In The Kingdom Of Fools	Reported Speech – Commands and Request	
JULY	Beehive – Reach For The Top Poem – A Slumber Did My Seal Moment – The Beggar	Writing – Descriptive Paragraph (describing a person/event/situation) Story writing or Diary entry	
AUGUST	Revision	Revision	Make a project contrasting lives of Maria Sharapova and Santosh Yadav.
SEPTEMBER	FIRST TERM	Modals	
OCTOBER	Beehive – The little Girl Poem – No Men Are Foreign Moment – Iswaran : The Story Teller	Subject – Verb Concord	Art Integrated Project – Make a project contrasting the two pilgrimages of Kathmandu as mentioned in the chapter – “Kathmandu”
NOVEMBER	Beehive – The Snake and The Mirror Poem – The Lake Isle Of Innisfree Moment – The Happy Prince	Reported Speech – Statements, Questions	
DECEMBER	Beehive – My Childhood Poem – A Legend Of Northland Moment – The Last Leaf	Continuation of Reported Speech	

JANUARY	Beehive – If I Were You, Kathmandu Poem – On Killing A Tree  Moment – A House Is Not A Home	Writing – Descriptive Paragraph (describing a person/event/situation) Story writing or Diary entry	Work in pairs highlighting the significance of trees in nature as well as in our lives.
FEBRUARY	REVISION	Revision	
MARCH	FINAL TERM		

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS 9

SUBJECT HINDI

MONTH	पाठ्य पुस्तक	व्याकरण	ASSIGNMENT/ART INTEGRATED WORK
APRIL	पाठ- 1 -दो बैलों की कथा पाठ 2 लहासा की ओर	वाक्य -अर्थ के आधार पर	आजादी की लड़ाई से संबंधित किसी वीर नायक की कहानी खोज कर उस पर परियोजना कार्य तैयार कीजिए
MAY	पाठ 3 उपभोक्तावाद की संस्कृति	वाक्य अर्थ के आधार पर पुनरावृत्ति	आज उपभोक्तावाद की संस्कृति हमारे रीति रिवाज और त्योहारों को किस प्रकार प्रभावित कर रही है अपनी अनुभव के आधार पर एक अनुच्छेद लिखिए
JUNE	काव्य खंड पाठ 7 साखियाँ एवं सबद पत्र लेखन औपचारिक एवं अनौपचारिक	उपसर्ग एवं प्रत्यय	कबीर का जीवन परिचय पढ़िए एवं उनके धार्मिक और सांप्रदायिक सद्भाव संबंधी दोहों का संकलन कर परियोजना कार्य तैयार कीजिए
JULY	पाठ 4 सांवले सपनों की याद पाठ 5 प्रेमचंद के फटे जूते काव्य खंड पाठ 8-वाख अनुच्छेद लेखन	समास	पर्यावरण को बचाने के लिए आप अपना योगदान कैसे दे सकते हैं? सचित्र परियोजना कार्य तैयार कीजिए
AUGUST	पाठ 6 मेरे बचपन के दिन कृतिका-भाग 1 ( पूरक पाठ्य) पाठ एक इस जल प्रलय में	1-वाक्य अर्थ के आधार पर 2-उपसर्ग एवं प्रत्यय 3-समास (पुनरावृत्ति)	बाढ़ जैसी प्राकृतिक आपदाओं से बचने के लिए क्या-क्या उपाय किए जा सकते हैं चार्ट पेपर पर सचित्र विवरण तैयार कीजिए।
SEPTEMBER	FIRST TERM	पुनरावृत्ति	
OCTOBER	कृतिका( पूरक पुस्तक) पाठ -2-मेरे संग की औरतें काव्य खंड पाठ -9-सवैयै पाठ 10 कैदी और कोकिला संवाद लेखन	अलंकार	भक्ति काल के कवियों की उनके लेखन की विशेषताओं सहित सूची तैयार कीजिए।
NOVEMBER	काव्य खंड पाठ 11 ग्राम श्री पाठ 12 मेघ आए लघु कथा लेखन	अलंकार	‘बाल श्रम की रोकथाम’ पर एक नाटक तैयार कर उसकी प्रस्तुति कीजिए।
DECEMBER	पाठ 13 बच्चे कम पर जा रहे हैं कृतिका पाठ 3 रीढ़ की हड्डी ईमेल लेखन	(पुनरावृत्ति ) समास एवं अलंकार	‘रीढ़ की हड्डी’ पाठ में किसी समस्या को उठाया गया है क्या आज भी हमें इस समस्या का भयंकर रूप दिखाई देता है अपने विचार व्यक्त कीजिए।
JANUARY	कृतिका पाठ 3 रीढ़ की हड्डी काव्य खंड पुनरावृत्ति	पुनरावृत्ति कार्य	
FEBRUARY	REVISION		
MARCH	FINAL TERM		

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS 9

SUBJECT CIVICS

Month	Chapter Name	ASSIGNMENT/ART INTEGRATED WORK
April	What is Democracy? Why Democracy	Make a political map marking countries with different forms of government.
May	Constitutional Design	
June	Constitutional Design	
July	Electoral Politics	Survey 10 people on what qualities they expect in political leaders.
August	Working of Institutions	
September	First Term	Prepare it with charts.
October	Democratic Rights	Create a poster of each Fundamental Right using real-life examples.
November	Revision	
December	Revision	
January	Revision	Role play: Parliamentary session debating a bill.
February	Revision	
March	Exam	

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM



# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS : 9

SUBJECT :GEOGRAPHY

MONTH	CHAPTER NAME	ASSIGNMENT/ART INTEGRATED WORK
APRIL	Ch.1 India – Size and Location	Show the Location of India on the World Map. Show the States through the Tropic of Cancer passes. Mark all States on the Political Map of India.
MAY	Ch.2 Physical Features of India	Make a Project on The Islands of India & Development of Tourism
JUNE	Ch.2 Physical Features of India	Mark all the Physical Features of India on the Political Map of India.
JULY	Ch.3 Drainage	Mark the Rivers on the outline Map of India
AUGUST	Revision	
SEPTEMBER	FIRST TERM	
OCTOBER	Ch.4 Climate	Mark the direction of monsoon winds
NOVEMBER	The Indian Monsoon	
DECEMBER	Ch 5 Natural Vegetation	Make a Project on Natural Vegetation of India.
JANUARY	Ch.6 Population	
FEBRUARY	REVISION	
MARCH	FINAL TERM	

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS : 9

SUBJECT :HISTORY

Month	Section	Chapter	Sub Topics
April	<b>1. Events and Processes</b>	<b>1. The French Revolution</b>	<ul style="list-style-type: none"> <li>French Society during the eighteenth century</li> <li>The struggle to survive</li> <li>A growing middle class envisages an end to privileges</li> <li>The outbreak of the Revolution</li> <li>France becomes a constitutional monarchy</li> </ul>
May	1.Events and Process	<b>1.The French Revolution</b>	<ul style="list-style-type: none"> <li>France Abolishes Monarchy and becomes a Republic</li> <li>The reign of terror</li> <li>A directory rules France</li> <li>Did women have a Revolution?</li> <li>The Abolition of Slavery</li> <li>The Revolution and Everyday life</li> </ul>
June	1. Events and Process	<b>2. Socialism in Europe and the Russian Revolution</b>	<ul style="list-style-type: none"> <li>The age of Socialism Change</li> <li>Liberals, Radicals and Conservatives</li> <li>Industrial Society and Social Change</li> <li>The coming of socialism to Europe</li> <li>Support for socialism</li> </ul>
July	1. Events and Processes	<b>2. Socialism in Europe and the Russian Revolution</b>	<ul style="list-style-type: none"> <li>The Russian Revolution</li> <li>The Russian Empire in 1914</li> <li>Economy and Society</li> <li>Socialism in Russia</li> <li>A Turbulent Time: The 1905 Revolution</li> <li>The First World War and the Russian Empire</li> <li>The February Revolution in Petrograd</li> <li>After February</li> <li>The Revolution of October 1917</li> <li>What Changed after October?</li> <li>The Civil War</li> <li>Making a Socialist Society</li> <li>Stalinism and Collectivisation</li> <li>The Global Influence of the Russian Revolution and the USSR</li> </ul>
August	1. Events and Processes	<b>3. Nazism and the Rise of Hitler</b>	<ul style="list-style-type: none"> <li>Nazism and the Rise of Hitler</li> <li>Birth of the Weimar Republic</li> <li>The effects of the war</li> <li>Political Radicalism and Economics crisis</li> <li>The Years of depression</li> <li>Hitler's rise to power</li> </ul>
September	1. Events and Processes	<b>3. Nazism and the Rise of Hitler</b>	<ul style="list-style-type: none"> <li>The destruction of democracy</li> <li>The Nazi worldview</li> <li>Establishment of the Racial state</li> <li>The racial Utopia</li> <li>Youth in Nazi Germany</li> </ul>

			<ul style="list-style-type: none"> <li>• The Nazi cult of motherland</li> <li>• The art of propaganda</li> <li>• Ordinary people and the crimes against humanity</li> <li>• Knowledge about the Holocaust</li> </ul>
October	2. Livelihoods, Economics and Societies	4. Forest Society and Colonialism	<ul style="list-style-type: none"> <li>• Why deforestation?</li> <li>• The rise of commercial forestry</li> <li>• Rebellion in the Forest</li> <li>• Forest Transformations in Java</li> </ul>
November	2. Livelihoods, Economics and Societies	5. Pastoralists in the Modern World	<ul style="list-style-type: none"> <li>• Pastoral Nomads and their Movements</li> </ul>
December	Revision	Previous year questions (PYQ) Chapter wise	
January	Revision	Sample question papers	

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS 9

SUBJECT SCIENCE

MONTH	CHAPTER NAME	ASSIGNMENT/ART INTEGRATED WORK
APRIL	Bio : Ch 5 Fundamental Unit Of Life Chem : Ch-1 Matters In Our Surroundings Phy : Motion, Graphical Representation Of Motion, Eqn. Of Motion By Graphical Method.	Draw a neat well labelled diagram of plant cell and animal cell  Graph based different problems.
MAY	Bio : Ch 5 Fundamental Unit Of Life Chem : Ch-1 Matters In Our Surroundings Phy : Force And Laws Of Motion	
JUNE	Bio : Ch6 Tissue Chem : Ch-2 Is Matter Around Us Pure Phy : Moment, Laws Of Conservation Of Momentum And Related Problems.	Draw well labelled diagram of human muscular tissue and nervous tissue
JULY	Bio : Ch6 Tissue Chem : Ch-2 Is Matter Around Us Pure Phy : Gravitation Mass And Weight, Expression For Acceleration Due To Gravity And It's Variation. Upthrust, Archimedes Principle.	Activity based on laws of Motion.
AUGUST	Revision Phy : Relative Density & Revision.	
SEPTEMBER	First Term	
OCTOBER	Bio : Ch12 Improvement In Food Resources Chem : Ch-3 Atoms And Molecules Phy : Work Power & Energy Expression Of K.E., Work Energy Theorem And Related Problems. Commercial Unit Of Energy And Related Problems.	
NOVEMBER	Bio : Ch12 Improvement In Food Resources Chem : Ch-3 Atoms And Molecules Phy : Sound Types Of Waves, Audible Range, Frequency, Timeperiod, Wavelength It's Relation.	Make a project file on modern methods of agriculture
DECEMBER	Bio- Fundamental Unit Of Life Revision Chem : Ch-4 Structure Of The Atom Phy : Characteristics Of Sound,Loudness, Pitch, Qality Of Sound.	
JANUARY	Bio : Tissue Revision Chem : Ch-4 Structure Of Atom Phy : Revision	
FEBRUARY	REVISION	
MARCH	FINAL TERM	

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM

# CHIRANJEEVEE CONCEPT SCHOOL, HOCHAR, RANCHI

## SYLLABUS

CLASS IX

SUBJECT COMPUTER

MONTH	CHAPTER NAME	ASSIGNMENT/ART INTEGRATED WORK
APRIL	1. COMMUNICATION SKILLS	PREPARE A PRESENTATION RELATED TO IMPROVING COMMUNICATION SKILLS
MAY	2. DIGITAL DOCUMENTATION	PRACTICAL WORK
JUNE	3. DIGITAL DOCUMENTATION(contd.)	--
JULY	4. SELF MANAGEMENT SKILLS 5. ICT SKILLS	PREPARE A PPT OR POSTER ON TIPS FOR STRESS MANAGEMENT
AUGUST	6. ELECTRONIC SPREADSHEET	PRACTICAL WORK
SEPTEMBER	FIRST TERM	--
OCTOBER	7. INTRODUCTION TO ITeS 8. GREEN SKILLS	--
NOVEMBER	9. DATA ENTRY & KEYBOARD SKILLS	PREPARE A POSTER ON TYPING ERGONOMICS AND COLOR CODED FINGER PLACEMENT ON KEYBOARD
DECEMBER	10. DIGITAL PRESENTATION	PRACTICAL WORK
JANUARY	11. ENTREPRENEURIAL SKILLS	--
FEBRUARY	REVISION	
MARCH	FINAL TERM	

SEPTEMBER FIRST TERM

FEBRUARY + MARCH FINAL TERM