

# KALKA PUBLIC SCHOOL

## Annual Syllabus

Session : 2023-24

Class : IX

<b>SUBJECT : (SUBJECT CODE) 184</b>		
<b>Books Prescribed : Beehive Moments</b>		
<b>Month</b>	<b>Chapter No. and Name</b>	<b>Activity / Project/ Practical</b>
<b>April</b>	The Fun they had The sound of Music The Road not taken wind The Lost Child Integrated Grammar Writing	Presentation on The Road on Taken
<b>June</b>	The Adventure of Toto Letter Article Writing Integrated Grammar	Comic strip of Adventure of Toto
<b>July</b>	Iswaran the story teller In the kingdom of fools Rain on the roof Writing	Creative Writing
<b>August</b>	The Happy Prince A truly beautiful mind The Little girl Integrated Grammar Writing	PPT on A truly Beautiful mind
<b>September</b>	The Snake and the mirror The Last Leaf The lake isle of Innisfree My Childhood Integrated Grammar Writing	Extempore
<b>October</b>	Mid Term Exams A house is not a home A beggar Integrated Grammar Writing	Jam -Just a minute
<b>November</b>	No men are foreigners	ASL

	A legend of Northland On killing a tree A slumber did my spirit seal Reach for top <b>Integrated Grammar</b> Writing	
<b>December</b>	Kathmandu If I were you <b>Integrated Grammar</b> Writing	ASL
<b>January</b>	Revisions Worksheets Sample Paper Project work	ASL
<b>February</b>	Revisions	Group Discussion

### Syllabus for Assessment 2023-24

	Assessment	Syllabus of Assessment	Practical/Project
<b>Term - 1</b>	<b>PT-1</b>	<b>The Fun they had</b> <b>The sound of Music</b> <b>The Road not taken</b> <b>wind</b> <b>The Lost Child</b>  <b>Integrated Grammar</b> Writing	presentation
	<b>Half Yearly</b>	<b>The Fun they had</b> <b>The sound of Music</b> <b>The Road not taken</b> <b>wind</b> <b>The Lost Child</b> <b>Iswaran the story teller</b> <b>In the kingdom of fools</b> <b>Rain on the roof</b> The Happy Prince A truly beautiful mind The Little girl  <b>Integrated Grammar</b> Writing	Extempore

<b>Term - 2</b>	<b>PT-2</b>	The Happy Prince In the kingdom of fools Rain on the roof Iswaran the story teller  <b>Integrated Grammar</b> Writing	Group Discussion
	<b>PT-3</b>	The Snake and the mirror The Last Leaf The lake isle of Innisfree My Childhood A house is not a home A beggar  <b>Integrated Grammar</b> Writing	Creative Writing
	<b>Annual Exam</b>	Full Syllabus	ASL

# KALKA PUBLIC SCHOOL

## BPTP, FARIDABAD

### Annual Syllabus

Session : 2023-24

Class : IX

SUBJECT : ARTIFICIAL INTELLIGENCE (417)		
Books Prescribed : NCERT - Information Technology		
Month	Chapter No. and Name	Activity / Project/ Practical
April	<b>PART A : Employability Skills</b> <b>UNIT- 1 (Communication Skills)</b> Ch-1 (Communication Cycle) Ch-2 (Various Methods of Communications) <b>PART B : Subject Specific Skills</b> <b>UNIT - 3 (Digital Documentation)</b> Ch-4 (Introduction to Word Processor) Theory + Practical Ch-5 (Editing a Document) Theory + Practical	<ul style="list-style-type: none"><li>● Draw a neat Diagram of Elements of Communication</li><li>● Ms-Word Practical</li></ul>
May	<b>PART A: UNIT- 1 (Communication Skills)</b> Ch-3 (Perspective in Communications) Ch-4 (Basic Writing Skills) <b>PART B: UNIT - 3 (Digital Documentation)</b> Ch-6 (Formatting a Document) Theory + Practical <b>PART A : UNIT- 2 (Self Management Skills)</b> Ch-5 (Importance of Self Management) Ch-6 (Building Self Confidence)	<ul style="list-style-type: none"><li>● Various features of Ms-Word; Creating, Editing and Saving Document</li><li>● Create a beautiful PowerPoint Presentation on Self Management Skills</li></ul>
July	<b>UNIT- 3 (Information and Communication Technology Skills)</b> Ch-7 (Introduction to ICT) Ch-8 (Components of Computer System) Ch-9 (Peripheral Devices) Ch-10 (Basic Computer Operations)	<ul style="list-style-type: none"><li>● Make an attractive Chart on various Peripheral Devices</li></ul>
August	<b>UNIT- 3 (Information and Communication Technology Skills)</b> Ch-11 (Operating Systems) Theory + Practical Ch-12 (Introduction to Internet) Theory + Practical	<ul style="list-style-type: none"><li>● Create an email Account in Gmail and perform the various operations; compose, send,</li></ul>

	Ch-13 (Introduction to E-Mail) Theory + Practical Ch-14 (Introduction to Social Media) Theory + Practical	<b>sending attachments etc.</b>
<b>September</b>	<b>UNIT- 4 (Entrepreneurial Skills)</b> Ch-15 (Types of Business Activities) Ch-16 (Characteristics of Entrepreneurship) <b>UNIT- 5 (Green Skills)</b> Ch-17 (Environment Protection and Conservation) Ch-18 (Importance of Green Economy)	<ul style="list-style-type: none"> <li>● <b>Make a PowerPoint Presentation on Sustainable Development</b></li> </ul>
<b>October</b>	<b>PART - B (Subject Skills)</b> <b>UNIT - 1 (Introduction to AI)</b> Ch-1 (Foundational Concept of AI) Ch-2 (Basics of AI) <b>UNIT - 2 (AI Project Cycle)</b> Ch-1 (Introduction) Ch-2 (Problem Solving) Ch-3 (Data Acquisition) Ch-4 (Data Exploration) Ch-5 (Modeling) Ch-6 (Evaluation)	<ul style="list-style-type: none"> <li>● <b>Make a small project based on AI</b></li> </ul>
<b>November</b>	<b>UNIT - 3 (Natural Language Processing)</b> Ch-1 (Introduction) Ch-2 (Chatbots) Ch-3 (Language Differences) Ch-4 (Concepts of Natural Language Processing)  <b>UNIT - 4 (Evaluation)</b> Ch-1 (Introduction) Ch-2 (Confusion Matrix) Ch-3 (Evaluation Score Calculation)	<ul style="list-style-type: none"> <li>● <b>Create a model based on NLP</b></li> </ul>
<b>December</b>	<b>All Units to be assessed through practical</b> <b>UNIT - 5 (Advance Python)</b> <b>UNIT - 6 (Data Sciences)</b> Ch-1 (Introduction) Ch-2 (Concepts of Data Sciences) Ch-3 (K-nearest neighbour model) <b>UNIT - 7 (Computer Vision)</b> Ch-1 (Introduction) Ch-2 (Concepts of Computer Vision) Ch-3 (Open CV and Convolution Operator) Ch-4 (Convolution Neural Network)	<ul style="list-style-type: none"> <li>● <b>Programs related to Python</b></li> <li>● <b>Programs related to Data Science and Computer Vision.</b></li> </ul>

<b>January</b>	<b>Revision</b> <b>Tests</b> <b>Project Work</b> <b>Practical File</b>	
<b>February</b>		

### **Syllabus for Assessment 2023-24**

	<b>Assessment</b>	<b>Syllabus of Assessment</b>	<b>Practical/Project</b>
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<b>Term - 1</b>	<b>PT-1</b>	<b>Part A : Unit -1</b> Ch-1 (Communication Cycle) Ch-2 (Various Methods of Communication) Ch-3 (Perspective in Communication) Ch-4 (Basic Writing Skills) <b>Part B: Unit -1 (Introduction to AI)</b> Ch-1 (Foundational Concept of AI)	<ul style="list-style-type: none"> <li>● AI Model</li> </ul>
	<b>PT-2</b>	<b>Part - A Employability Skills</b> Unit-2 Self Management Skills Unit-3 ICT Skills <b>Part - B Subject Specific Skills</b> Unit-1 Ch-2 (Basics of AI) Unit 5 : Advance Python Ch 1 : Python Concepts	<ul style="list-style-type: none"> <li>● Python Programs</li> </ul>
	<b>MID TERM</b>	<b>Part A : UNIT- 4 (Entrepreneurial Skills)</b> Ch-15 (Types of Business Activities) Ch-16 (Characteristics of Entrepreneurship) <b>Part B : UNIT - 2 (AI Project Cycle)</b> Ch-1 (Introduction) Ch-2 (Problem Solving) Ch-3 (Data Acquisition) Ch-4 (Data Exploration) Ch-5 (Modeling) Ch-6 (Evaluation)	<ul style="list-style-type: none"> <li>● AI Model based on Project Cycle</li> </ul>
<b>Term - 2</b>	<b>PT-3</b>	<b>Parts A: UNIT- 5 (Green Skills)</b> Ch-17 (Environment Protection and Conservation) Ch-18 (Importance of Green Economy) <b>Part B: UNIT - 3(Natural Language Processing)</b> Ch-1 (Introduction) Ch-2 (Chatbots) Ch-3 (Language Differences) Ch-4 (Concepts of Natural Language Processing)	<ul style="list-style-type: none"> <li>● Project on NLP</li> </ul>

	Annual Exam	<b>PART A : Employability Skills</b> <b>UNIT- 1 (Communication Skills)</b> <b>UNIT- 2 (Self Management Skills)</b> <b>UNIT- 3 (Information and Communication Technology Skills)</b> <b>UNIT- 4 (Entrepreneurial Skills)</b> <b>UNIT- 5 (Green Skills)</b> <b>PART B : Subject Skills</b> <b>UNIT - 1 (Introduction to AI)</b> <b>UNIT - 2 (AI Project Cycle)</b> <b>UNIT - 3 (Natural Language Processing)</b> <b>UNIT - 4 (Evaluation)</b> <b>UNIT - 5 (Advance Python)</b> <b>UNIT - 6 (Data Sciences)</b> <b>UNIT - 7 (Computer Vision)</b>	<ul style="list-style-type: none"> <li>• Python Programs</li> </ul>
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# KALKA PUBLIC SCHOOL

## Annual Syllabus Session : 2023-24 Class : IX

<b>SUBJECT : HINDI (CODE-085)</b>		
<b>Books Prescribed :</b> स्पर्श पाठ्यपुस्तक संचयन पाठ्यपुस्तक हिंदी व्याकरण परिचय		
<b>Month</b>	<b>Chapter No. and Name</b>	<b>Activity / Project/ Practical</b>



<p><b>April / May</b></p>	<p>स्पर्श पाठ्यपुस्तक गद्य खंड पाठ- 1दुख का अधिकार (यशपाल) पाठ 3 तुम कब जाओगे ,अतिथि पद्य खंड पाठ -7अब कैसे छूटे राम नाम रट लागी( रैदास) पाठ 8 रहीम के दोहे व्याकरण पाठ -1शब्द और पद पाठ 2 उपसर्ग -प्रत्यय अपठित गद्यांश</p>	<p>रहीम के दोहे का कक्षा -कक्ष में उचित लय गति से वाचन ।</p> <p>अपनी इच्छा अनुसार किन्ही 10 उपसर्ग का प्रयोग कर 3-3 नए शब्द बनाए।</p>
<p><b>July</b></p>	<p>स्पर्श पाठ्यपुस्तक गद्य खंड पाठ-2 एवरेस्ट मेरी शिखर यात्रा(बचेंद्री पाल) पद्य खंड पाठ 11 गीत अगीत हिंदी व्याकरण पाठ -3 अपठित गद्यांश पाठ- 4अर्थ की दृष्टि से वाक्य भेद परिचय</p>	<p>‘एवरेस्ट मेरी शिखर यात्रा ‘पाठ में प्रयोग में लाए गए किन्ही 10 से 15 अंग्रेजी शब्दों को ढूंढ कर लिखें ।</p>
<p><b>August</b></p>	<p>व्याकरण पाठ 5 अनुस्वार ,अनुनासिक पद्य पाठ 12 अग्निपथ (कविता) संचयन पाठ 1 गिल्लू पाठ2 स्मृति व्याकरण पाठ 5स्वर संधि पाठ 6विराम चिन्ह</p>	<p>महादेवी वर्मा की तरह आपने भी कभी किसी जीव-जंतुओं की मदद की होगी ,उस घटना का वर्णन 50 से 60 शब्दों में A4 शीट पर करें ।</p>
<p><b>September</b></p>	<p>स्पर्श गद्य पाठ 4 वैज्ञानिक चेतना के वाहक चंद्रशेखर वेंकट रामन पाठ 5 कीचड़ का काव्य (मौखिक) लेखन : (I) अनुच्छेद (II)अनौपचारिक पत्र (III)चित्र वर्णन</p>	<p>अपनी इच्छा अनुसार किसी एक विषय पर एक अनौपचारिक पत्र लिखें।</p>

	कराए गए समस्त पाठ्यक्रम की दोहराई	
<b>October</b>	स्पर्श पाठ्यपुस्तक पद्य खंड पाठ -13. खुशबू रचते हैं हाथ(अरुण कमल) स्पर्श गद्य पाठ 6 शुक्रतारे के समान संचयन पाठ्यपुस्तक हिंदी व्याकरण परिचय (iv)संवाद लेखन	लोगों के अंदर लुप्त हो रहे मानवीय गुणों को विकसित करने में आप किस तरह सहयोग देंगे a4 साइज शीट पर लिखिए।
<b>November</b>	संचयन पाठ्यपुस्तक पाठ -2 स्मृति (श्री राम शर्मा) व्याकरण  स्पर्श पाठ्यपुस्तक गद्य और पद्य में कराए गए पाठों की दोहराई	अपने बचपन की कोई एक यादगार घटना को A4 साइज शीट पर अंकित करें
<b>December</b>	संचयन पाठ्यपुस्तक पाठ 3 कल्लू कुम्हार की उनाकोटी (मौखिक) पाठ 4 मेरा छोटा सा निजी पुस्तकालय हिंदी व्याकरण परिचय 2.अनुच्छेद	अपने स्कूल के पुस्तकालय पर आधारित कोई 10 वाक्य लिखें।
<b>January</b>	हिंदी व्याकरण 4.संवाद लेखन	डेंगू बीमारी से बचाव के लिए दो मित्रों के बीच संवाद a4 साइज शीट पर लिखिए।
<b>February</b>	संपूर्ण पाठ्यक्रम का पूर्व परीक्षा के आधार पर दौहरान कार्य	उचित लय गति से दोहा वाचन।
<b>March</b>	संपूर्ण पाठ्यक्रम का वर्कशीट के आधार पर दौहरान कार्य	'पर्यावरण' विषय पर एक संवाद कक्षा कक्ष में आयोजित करें।

	Assessment	Syllabus of Assessment	Practical/Project
Term - 1	PT-1	स्पर्श पाठ्यपुस्तक गद्य खंड पाठ- 1 दुख का अधिकार (यशपाल) पद्य खंड पाठ -7 अब कैसे छूटे राम नाम रट लागी( रैदास) व्याकरण पाठ -1 शब्द और पद अपठित गद्यांश	समाज में पोशाक के आधार पर हो रहे भेदभाव का सजीव चित्रण अपने शब्दों में करें
	PT-2	स्पर्श पाठ्यपुस्तक गद्य खंड पाठ -पाठ-2 एवरेस्ट मेरी शिखर यात्रा(बचेंद्री पाल) पद्य खंड पाठ -8 रहीम के दोहे हिंदी व्याकरण पाठ -2 उपसर्ग प्रत्यय पाठ 3 अनुस्वार -अनुनासिक पाठ -3 अपठित गद्यांश	रहीम के दोहों का अर्थ लिखकर  एक सुंदर पी.पी.टी. तैयार  कीजिए।

term 2	Half Yearly	स्पर्श पाठ्यपुस्तक गद्य खंड पाठ- 1 दुख का अधिकार (यशपाल) पाठ -पाठ-2 एवरेस्ट मेरी शिखर यात्रा पाठ -3 तुम कब जाओगे अतिथि(शरद जोशी) पाठ4 वैज्ञानिक चेतना के वाहक चंद्रशेखर वैकट रामन पद्य खंड पाठ -7 अब कैसे छूटे राम नाम रट लागी( रैदास) पाठ -8 रहीम के दोहे संचयन पाठ 1 गिल्लू पाठ 2 स्मृति हिंदी व्याकरण पाठ 1 शब्द व पद पाठ -2 उपसर्ग- प्रत्यय पाठ 3 अनुस्वार , अनुनासिक पाठ 4 अर्थ के आधार पर वाक्य भेद लेखन : अनुच्छेद अनौपचारिक पत्र अपठित गद्यांश चित्र वर्णन	बढ़ते प्रदूषण संबंधी दो मित्रों के बीच संवाद कक्षा कक्ष में आयोजित करें
	PT-3	स्पर्श गद्य पाठ 6 शुक्रतारे के समान स्पर्श पाठ्यपुस्तक पद्य खंड पाठ -13.(I) खुशबू रचते हैं हाथ(अरुण कमल) (II) नए इलाके में संचयन पाठ्यपुस्तक पाठ 4 मेरा छोटा सा निजी पुस्तकालय हिंदी व्याकरण परिचय स्वर संधि विराम चिन्ह संवाद लेखन	लोगों के अंदर लुप्त हो रहे मानवीय गुणों को विकसित करने में आप किस तरह सहयोग देंगे a4 साइज शीट पर लिखिए।
	Annual Exam	संपूर्ण पाठ्यक्रम	श्रवण वाचन गतिविधि का आयोजन

# **KALKA PUBLIC SCHOOL**

## **Annual Syllabus**

**Session: 2023-24**

**Class: IX**

**SUBJECT : 041**

**Books Prescribed : Mathematics - Textbook for class IX -  
NCERT Publication**

Month	Chapter No. and Name	Activity / Project/ Practical
April	<p><b>UNIT- NUMBER SYSTEMS</b></p> <p><b>CH 1: NUMBER SYSTEM</b></p> <p>Review 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>1. Examples of non-recurring/non-terminating decimals. Existence of non-rational numbers (irrational numbers) such as, <math>\sqrt{2}, \sqrt{3}</math> and their representation on the number</p> <p>2. Rationalization (with precise meaning) of real numbers of the type <math>1/(a+b\sqrt{x})</math> and <math>1/(\sqrt{x}+\sqrt{y})</math> (and their combinations) where x and y are natural number and a and b are integers.</p> <p>3. 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.)</p>	<p>Construct a Square Root</p> <p>Spiral.</p> <p>Represent Some Irrational</p> <p>Numbers on the Number Line</p> <p>Find the Values of Abscissa</p>

	<p><b>UNIT-COORDINATE GEOMETRY</b></p> <p><b>CH 3: COORDINATE GEOMETRY</b></p> <p>The Cartesian plane, coordinates of a point, names and terms associated with the coordinate plane, notations, plotting points in the plane.</p>	<p>Find a Hidden Picture by Plotting</p>
<p>May</p>	<p><b>UNIT-ALGEBRA</b></p> <p><b>CH 4: LINEAR EQUATIONS IN TWO VARIABLES</b></p> <p>Recall of linear equations in one variable. Introduction to the equation in two variables. Focus on linear equations of the type <math>ax + by + c = 0</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. Graph of linear equations in two variables. Examples, problems from real life with algebraic and graphical solutions being done simultaneously.</p> <p><b>UNIT-GEOMETRY</b></p> <p><b>CH 6: 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. 2. (Prove) If two lines intersect, vertically opposite angles are equal. 3. (Motivate) Results on</p>	<p>Verify that if Two Lines Intersect each Other</p>

	<p>corresponding angles, alternate angles, interior angles when a transversal intersects two parallel lines. 4. (Motivate) Lines which are parallel to a given line are parallel. 5. (Prove) The sum of the angles of a triangle is <math>180^\circ</math>. 6. (Motivate) If a side of a triangle is produced, the exterior angle so formed is equal to the sum of the two interior opposite angles.</p>	
<p><b>July</b></p>	<p><b>UNIT-GEOMETRY</b></p> <p><b>CH 7: 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. (Motivate) 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>	<p>Verify that the Sum of the Angles of a Triangle is 180 degrees.</p> <p>Verify Exterior Angle Property of a Triangle</p> <p>Verify the Different Criteria for Congruency of Triangles</p> <p>Verify that in a Triangle, Longer Side has the Greater Angle</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>7. (Motivate) The sides opposite to equal angles of a triangle are equal.</p>	
<b>August</b>	<p><b>UNIT-STATISTICS &amp; PROBABILITY</b></p> <p><b>CH 14: STATISTICS</b></p> <p>Introduction to Statistics: Collection of data, presentation of data — tabular form, ungrouped / grouped, bar graphs, histograms</p>	<p>Draw Histograms for Classes of Equal Widths and Varying Widths</p>
<b>September</b>	<p>Term 1 Exams</p>	
<b>October</b>	<p><b>UNIT-ALGEBRA</b></p> <p><b>CH 2: 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. Factorization of</p>	<p>Verify different Algebraic Identities</p>

	<p><math>ax^2 + bx + c</math>, <math>a \neq 0</math> where <math>a</math>, <math>b</math> and <math>c</math> are real numbers, and of cubic polynomials using the Factor Theorem. Recall of algebraic expressions and identities. Verification of identities</p> <p>and their use in factorization of polynomials.</p>	
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<p><b>November</b></p>	<p><b>UNIT-GEOMETRY</b></p> <p><b>CH8: QUADRILATERALS</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> <p><b>CH 10: CIRCLES</b></p> <p>Through examples, arrive at definition of circle and related concepts-radius, circumference, diameter, chord, arc, secant, sector, segment, subtended angle.</p>	<p>Verify that the Sum of the Angles of a Quadrilateral is 360 degrees</p> <p>Find the Formula for the Area of a Trapezium</p> <p>Verify that the Angle Subtended by an Arc of a Circle</p> <p>Verify that the Angles in the Same Segment of a Circle are Equal</p> <p>Verify that the Opposite Angles of a Cyclic Quadrilateral</p>
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|  | <ol style="list-style-type: none"><li>1. (Prove) Equal chords of a circle subtend equal angles at the centre and (motivate) its converse.</li><li>2. (Motivate) The perpendicular from the centre of a circle to a chord bisects the chord and conversely, the line drawn through the centre of a circle to bisect a chord is perpendicular to the chord.</li><li>3. (Motivate) Equal chords of a circle (or of congruent circles) are equidistant from the centre (or their respective centres) and conversely.</li><li>4. (Motivate) The angle subtended by an arc at the centre is double the angle subtended by it at any point on the remaining part of the circle.</li><li>5. (Motivate) Angles in the same segment of a circle are equal.</li><li>6. (Motivate) The sum of either of the pair of the opposite angles of a cyclic quadrilateral is <math>180^\circ</math> and its converse.</li></ol> |  |
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<p><b>December</b></p>	<p><b>UNIT-GEOMETRY</b></p> <p><b>CH 11: CONSTRUCTIONS</b></p> <p>1. Construction of bisectors of line segments</p> <p>and angles of measure <math>60^\circ</math>, <math>90^\circ</math>, <math>45^\circ</math> etc., equilateral triangles.</p> <p>2. Construction of a triangle given its base, sum/difference of the other two sides and one base angle.</p> <p><b>UNIT-MENSURATION</b></p> <p><b>CH 13: SURFACE AREAS AND VOLUMES</b></p> <p>Surface areas and volumes of cubes, cuboids, spheres (including hemispheres) and right circular cylinders/cones.</p>	<p>Form a Cube and Find the Formula for its Surface</p> <p>Form a Cuboid and Find the Formula for its Surface Area</p> <p>Form a Cone from a Sector of a Circle</p> <p>Find a Formula for the Curved Surface Area of a Cylinder</p> <p>Find the Relationship among the Volumes of a Cone</p> <p>Obtain the Formula for the Surface</p>
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	<p><b>UNIT-STATISTICS &amp; PROBABILITY</b></p> <p><b>CH 15: PROBABILITY</b></p> <p>History, Repeated experiments and observed frequency approach to probability. Focus is on empirical probability. (A large amount of time to be devoted to group and to individual activities to motivate the concept; the experiments to be drawn from real - life situations, and from examples used in the chapter on statistics).</p>	<p>Area of a Sphere.</p> <p>Find Probability of Unit's Digit of Telephone Numbers</p> <p>Find Probability of each Outcome or a Die</p>
<b>January</b>	Revision	
<b>February</b>	Term 2 Exams	

**Syllabus for Assessment 2023-24**

	Assessment	Syllabus of Assessment	Practical/Project
Term - 1	PT-1	1: NUMBER SYSTEM 3: COORDINATE GEOMETRY	Construct a Square Root rational.
	Half Yearly	1: NUMBER SYSTEM 3: COORDINATE GEOMETRY 4: LINEAR EQUATIONS TWO VARIABLES 6: LINES AND ANGLES 7: TRIANGLES 14: STATISTICS	Verify that the Sum of Angles of a Triangle is 180 degrees.
Term - 2	PT-2	2: POLYNOMIALS 10: CIRCLES	Verify different Algebraic Identities.
	PT-3	8: QUADRILATERALS 11: CONSTRUCTIONS	Verify that the Sum of the Angles of a Quadrilateral is 360 degrees.
	Annual Exam	Full syllabus	Every student will be asked to do at least one project based on the concepts learnt in the classroom.

# KALKA PUBLIC SCHOOL

## Annual Syllabus

Session : 2023-24

Class : IX

<b>SUBJECT : (SUBJECT CODE)</b>		
<b>Books Prescribed : NCERT</b>		
<b>Month</b>	<b>Chapter No. and Name</b>	<b>Activity / Project/ Practical</b>
<b>April</b>	<b>Unit –II: Organization in the living world CH- 5 The Fundamental Unit of life Physics Unit-III: Motion, Force and Work CH-8: Motion Chemistry Unit I: Chapter 1- Matter in our surroundings.</b>	<b>Physics-Determination of density of solid by using a spring balance and a measuring cylinder.  Chemistry Activity 1.1 of ncert  Study of Properties of matter  Biology  Preparation of stained temporary mounts a) onion peel b) human cheek cells</b>
<b>May</b>	<b>Physics Unit-III: Motion, Force and Work CH-8: Motion Chemistry Unit I: Chapter 2-Is Matter around us Pure? Biology Unit –II: Organization in the living world CH- 5 The Fundamental Unit of life</b>	<b>Preparation of :  a) a true solution of common salt,sugar and alum  b) a suspension of soil, chalk powder and fine sand in water</b>



		<p>c) a colloidal solution of starch in water and egg albumin/milk in water and distinguish.</p>
<p><b>July</b></p>	<p><b>Unit –II: Organization in the living world</b>  <b>CH-6 Tissue</b>  <b>Physics</b>  <b>Unit-III: Motion, Force and Work</b>  <b>CH-8: Force and laws of motion.</b>  <b>Unit I: Chapter 2-Is Matter around us Pure?</b></p>	<p><b>Practical - Identification of Parenchyma, Collenchyma &amp; Sclerenchyma tissues from prepared slides.</b></p> <p><b>Physics-Establishing the relation between the loss in weight of a solid when fully immersed in</b></p> <p>a) tap water</p> <p>b) strongly salty water</p> <p><b>Chemistry</b></p> <p><b>Distinguish between true solution, suspension and colloids on the basis of</b></p> <ul style="list-style-type: none"> <li>● transparency</li> <li>● filtration criterion</li> <li>● stability</li> </ul>
<p><b>August</b></p>	<p><b>Unit –II: Organization in the living world</b>  <b>CH-6 Tissue</b>  <b>Physics</b>  <b>Unit-III: Motion, Force and Work</b>  <b>CH-8: Force and laws of</b></p>	<p><b>Chemistry</b></p> <p>2). Preparation of</p> <p>a) Mixture</p> <p>b) Compound</p>

	<p>motion Chemistry Revision- Unit I: Chapter 1- Matter in our surroundings. and Chapter 2-Is Matter around us Pure?</p>	<p>using iron filings and sulphur powder and distinguishing between these on the basis of: i. appearance, i.e., homogeneity and heterogeneity ii. behaviour towards a magnet iii. behaviour towards carbon disulphide as a solvent iv. effect of heat</p>
<b>September</b>	<p>Unit –IV: Food Production CH- 12 Improvement in food resources Physics Unit-III: Motion, Force and Work CH-10: Gravitation Revision Chemistry Revision- Unit I: Chapter 1- Matter in our surroundings. and Chapter 2-Is Matter around us Pure?</p>	<p>Chemistry: 3). Classify different reactions as physical or chemical changes.</p>
<b>October</b>	<p>Physics  Unit-III: Motion, Force and Work CH-11: Work and Energy Chemistry Unit I: Chapter – 3 Atoms and Molecules Biology - Revision</p>	<p>Chemistry  TERM II  3. Verification of the law of conservation of mass in a chemical reaction.Unit-I:(Chapter–3)</p>

<b>November</b>	Chemistry Unit I: Chapter – 3 Atoms and Molecules Biology - Revision	
<b>December</b>	Chemistry Unit I: Chapter – 4 Structure of Atom Biology - Revision	
<b>January</b>	Chemistry Revision: Unit I: Chapter – 3 Atoms and Molecules Chapter – 4 Structure of Atom Biology - Revision	
<b>February</b>	Chemistry Revision : Unit I Chapter – 3 Atoms and Molecules Chapter – 4 Structure of Atom Biology - Revision	

### **Syllabus for Assessment 2023-24**

	<b>Assessment</b>	<b>Syllabus of Assessment</b>	<b>Practical/Project</b>
<b>Term - 1</b>	<b>PT-1</b>	<b>Biology</b> Unit –II: Organization in the living world CH- 5 The Fundamental Unit of life	<b>Identification of plant &amp; animal cell.</b>
	<b>PT-2</b>	<b>Biology</b> Unit –II: Organization in the living world CH- 6 Tissues ( Plant Tissue)	<b>Spotting</b>
<b>Term - 2</b>	<b>Half Yearly Exam</b>	<b>Biology</b> Unit –II: Organization in the living world CH- 5 The Fundamental Unit of life	<b>Identification of plant tissues.</b>

		<b>CH- 6 Tissues ( Plant Tissue)</b>	
	<b>PT-3</b>	<b>Biology CH- 6 Tissues ( Animal Tissue)</b>	<b>Practical work</b>
	<b>Annual Exam</b>	<b>Complete Syllabus</b>	<b>Project Work.</b>

# **KALKA PUBLIC SCHOOL**

**Annual Syllabus**  
**Session : 2023-24**

## Class : IX

<b>SUBJECT : (SUBJECT CODE) 087</b>		
<b>Books Prescribed :</b>		
<b>Month</b>	<b>Chapter No. and Name</b>	<b>Activity / Project/ Practical</b>
<b>April</b>	<b>History- The French Revolution Geo-India's Size and location Civics-What is Democracy ? Why Democracy ?</b>	<b>Presentation on Democracy</b>
<b>June</b>	<b>Eco -The Story of Palampur Geo-Physical Features of India</b>	<b>Model on Physical Feature of India</b>
<b>July</b>	<b>His- Russian Revolution Pol Sc- Constitutional Design Eco-People as resource</b>	<b>Make a presentation on Preamble</b>
<b>August</b>	<b>Geo-Drainage Eco- Poverty as challenge Pol Sc- Electoral Politics</b>	<b>Working Model of Drainage system</b>
<b>September</b>	<b>His- Nazicism Geo- Climate Eco- Food Security in India</b>	<b>model on Global Warming</b>
<b>October</b>	<b>His- Forest and Society Geo- Natural Vegetation Pol Sc- Working of Institutions</b>	<b>PPT on Lok sabha and Rajya Sabha</b>
<b>November</b>	<b>His- Pastoralists in the modern world Geo- Population Pol Sc- Democratic Rights</b>	<b>Survey on Population</b>
<b>December</b>	<b>Revision</b>	
<b>January</b>	<b>Revision</b>	
<b>February</b>	<b>Revision</b>	

