



**KALKA PUBLIC SCHOOL**

**BPTP (PARKLANDS), SECTOR-76, FARIDABAD, HARYANA**

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# KALKA PUBLIC SCHOOL

## Annual Syllabus

**Class :XI (SCIENCE)**

**(Session 2025-26)**

Subject	Syllabus (With Unit Numbers, Chapter No. and Name)	Project/ Portfolio/ Practical/ ASL
ENGLISH	<p>Section A ( Reading ) Comprehension Passage , Note Making Section B ( Writing ) Notice Writing , Letter to Editor , Article Writing, Advertisement , poster making Section C ( Literature)</p> <p><b>Book 1: Hornbill (Main Textbook)</b></p> <p><b>Prose</b></p> <ol style="list-style-type: none"><li>1. The Portrait of a Lady – Khushwant Singh</li><li>2. We're Not Afraid to Die... if We Can All Be Together – Gordon Cook &amp; Alan East</li><li>3. Discovering Tut: The Saga Continues – A.R. William</li></ol>	ASL

	<ol style="list-style-type: none"> <li>4. The Ailing Planet: The Green Movement's Role – Nani Palkhival</li> <li>5. Silk Road – Nick Middleton</li> </ol> <p><b>Poems</b></p> <ol style="list-style-type: none"> <li>1. A Photograph – Shirley Toulson</li> <li>2. The Laburnum Top – Ted Hughes</li> <li>3. The Voice of the Rain – Walt Whitman</li> <li>4. Childhood – Markus Natten</li> <li>5. Father to Son – Elizabeth Jennings.</li> </ol> <p><b>Book 2: Snapshots (Supplementary Reader)</b></p> <ol style="list-style-type: none"> <li>1. The Summer of the Beautiful White Horse – William Saroyan</li> <li>2. The Address – Marga Minco</li> <li>3. Mother's Day – J. B. Priestley</li> <li>4. Birth – A. J. Cronin</li> <li>5. The Tale of Melon City</li> </ol>	
<b>PHYSICS</b>	<p><b>Unit - 2</b></p> <p>chapter 02 - Motion in a straight line</p> <p>Chapter - 03 - Motion in a plane</p> <p><b>Unit - 03</b></p> <p>chapter - 04 - Laws of motion</p> <p><b>Unit - 04</b></p> <p>Chapter - 05 - work power and Energy</p> <p><b>Unit - 05</b></p>	<b>Project work, viva and practical files</b>

	<p>Chapter - 06 - centre of Mass and rotational motion</p> <p><b>Unit - 06</b></p> <p>Chapter - 07 - Gravitation</p> <p>Chapter - 08 - Mechanical properties of solids</p> <p>Chapter - 09 - Mechanical properties of Fluids</p> <p>Chapter - 10 - Thermal properties of matter</p> <p><b>Unit - 07</b></p> <p>Chapter - 11 - Thermodynamics</p> <p><b>Unit - 08</b></p> <p>Chapter - 12 - Kinetic theory of gases</p> <p><b>Unit - 09</b></p> <p>Chapter - 13 - oscillation</p> <p>Chapter - 14 waves</p>	
<b>CHEMISTRY</b>	<p>Ch-1: Some basic concepts of chemistry</p> <p>Ch-2: Atomic structure</p> <p>Ch-3: Classification of elements and periodicity in properties</p> <p>Ch-4: Chemical Bonding and molecular structure</p> <p>Ch-5: Equilibrium</p> <p>Ch-6: Thermodynamics</p> <p>Ch-7: Redox Reactions</p> <p>Ch-8: General organic chemistry</p> <p>Ch-9: Hydrocarbons</p>	Practical file and viva

<p><b>BIOLOGY</b></p>	<p><b>UNIT - I Diversity in living organisms</b>  CH- 3 Plant Kingdom  CH- 4 Animal Kingdom  <b>UNIT - II Structural organization in plants &amp; animals</b>  CH- 5 Morphology of flowering plants  CH- 6 Anatomy of flowering plants  <b>UNIT - III Cell: Structure &amp; function</b>  CH- 8 Cell: The unit of life  CH- 10 Cell cycle &amp; cell division  <b>UNIT - IV - Plant Physiology</b>  CH- 11 Photosynthesis in higher plants  CH- 12 Respiration in plants  CH- 13 Plant growth &amp; development  <b>UNIT - V - Human Physiology</b>  CH- 14 Breathing &amp; exchange of gases  CH- 15 Body fluids &amp; circulation  CH- 16 Excretory Products and their Elimination  CH- 17 - Locomotion and Movement  CH- 18 Neural Control and Coordination  CH- 19 Chemical Coordination and Integration</p>	<p><b>Project work &amp; Practical file.</b></p>
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<b>MATHEMATICS</b>	<p><b><u>Unit-I: Sets and Functions</u></b>  <b>Chapter -1 Sets</b>  <b>Chapter 2 Relations and functions</b>  <b>Chapter 3 Trigonometric Functions</b></p> <p><b><u>Unit-II: Algebra</u></b>  <b>Chapter 4 Complex Numbers and Quadratic Equations</b></p> <p><b><u>Chapter 5 Linear Inequalities</u></b>  <b>Chapter 6 Permutations and Combinations</b>  <b>Chapter 7 Binomial Theorem</b>  <b>Chapter 8 Sequence and Series</b></p> <p><b><u>Unit-III: Coordinate Geometry</u></b>  <b>Chapter 9 Straight Lines</b>  <b>Chapter 10 Conic Sections</b>  <b>Chapter 11 Introduction to Three-dimensional Geometry</b></p> <p><b><u>Unit-IV: Calculus</u></b>  <b>Chapter 12 Limits and Derivatives</b></p> <p><b><u>Unit-V Statistics and Probability</u></b>  <b>Chapter 13 Statistics</b>  <b>Chapter 14 Probability</b></p>	<b>Practical file work</b>
<b>PHYSICAL EDUCATION</b>	<p><b>UNIT 1 Changing Trends &amp; Career in Physical Education</b>  <b>UNIT 2 Olympic Value Education</b>  <b>UNIT 3 Yoga</b>  <b>UNIT 4 Physical Education &amp; Sports for CWSN</b>  <b>UNIT 5 Physical Fitness, Wellness</b>  <b>UNIT 6 Test, Measurements &amp; Evaluation</b>  <b>UNIT 7 Fundamentals of Anatomy and Physiology in Sports</b>  <b>UNIT 8 Fundamentals of Kinesiology and Biomechanics in Sports</b>  <b>UNIT 9 Psychology and Sports</b>  <b>UNIT 10 Training &amp; Doping in Sports</b></p>	<p><b>Physical Fitness Test: SAI Khelo India Test, Brockport Physical Fitness Test (BPFT)* Fitness Test</b>  <b>12- 15 mins Run or Walk</b>  <b>100 Meter Sprint</b>  <b>Shuttle Run</b>  <b>Standing broad jump</b>  <b>Push ups</b>  <b>Yoga asanas (two)</b></p>
<b>AI</b>	<p><b>Employability skills</b>  Unit 1: Communication Skills – III  Unit 2: Self-Management Skills – III  Unit 3: ICT Skills – III  Unit 4: Entrepreneurial Skills – III</p>	<b>Python Programs</b>

	Unit 5: Green Skills – III <b>Subject specific skills</b> Introduction: Artificial Intelligence for Everyone Unlocking your Future in AI Python Programming Data Literacy – Data Collection to Data Analysis Machine Learning Algorithms	
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