



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>Book 1: Hornbill (Main Textbook)</p> <p>Prose</p> <ol style="list-style-type: none">1. The Portrait of a Lady – Khushwant Singh2. We're Not Afraid to Die... if We Can All Be Together – Gordon Cook & Alan East3. Discovering Tut: The Saga Continues – A.R. William	ASL

	<p>4. The Ailing Planet: The Green Movement's Role – Nani Palkhival</p> <p>5. Silk Road – Nick Middleton</p> <p>Poems</p> <p>1. A Photograph – Shirley Toulson</p> <p>2. The Laburnum Top – Ted Hughes</p> <p>3. The Voice of the Rain – Walt Whitman</p> <p>4. Childhood – Markus Natten</p> <p>5. Father to Son – Elizabeth Jennings.</p> <p>Book 2: Snapshots (Supplementary Reader)</p> <p>1. The Summer of the Beautiful White Horse – William Saroyan</p> <p>2. The Address – Marga Minco</p> <p>3. Mother's Day – J. B. Priestley</p> <p>4. Birth – A. J. Cronin</p> <p>5. The Tale of Melon City</p>	
PHYSICS	<p>Unit - 2</p> <p>chapter 02 - Motion in a straight line</p> <p>Chapter - 03 - Motion in a plane</p> <p>Unit - 03</p> <p>chapter - 04 - Laws of motion</p> <p>Unit - 04</p> <p>Chapter - 05 - work power and Energy</p> <p>Unit - 05</p>	Project work, viva and practical files

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

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

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