

L.K. INTERNATIONAL SCHOOL
SYLLABUS 2026-27
CLASS – XI SCIENCE

ENGLISH				
Books	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
Hornbill	Prose Ch: The Portrait of a Lady Prose Ch: We're Not Afraid to Die... if We Can All Be Together Poem: A Photograph	Prose Ch: Discovering Tut: The Saga Continues Poem: The Laburnum Top, The Voice of the Rain + August UT Syllabus	Prose Ch: The Adventure Poem: Childhood	Prose Ch: Silk Road Poem: Father to Son + Complete CBSE Syllabus
Snapshots	Prose Ch: The Summer of the Beautiful White Horse Prose Ch: The Tale of Melon City	Prose Ch: The Address + August UT Syllabus	Play Ch: Mother's Day	Prose Ch: Birth Ch: The Summer of the Beautiful White Horse + Complete CBSE Syllabus
Reading Skills	Comprehension Passage (Factual, Descriptive or Literary)	Case Based Factual Passage (based on verbal/visual inputs- statistical data, charts etc.) + Note Making + August UT Syllabus	Comprehension Passage (Factual, Descriptive or Literary)	Case Based Factual Passage (based on verbal/visual inputs- statistical data, charts etc.) + Note Making + Complete CBSE Syllabus
Creative Writing Skills	<ul style="list-style-type: none"> • Classified Advertisements 	<ul style="list-style-type: none"> • Classified Advertisements • Poster 	<ul style="list-style-type: none"> • Speech Writing 	Debate Writing + Complete CBSE Syllabus
Grammar	Tenses <ul style="list-style-type: none"> • Gap filling • Re-ordering of sentences • Transformation of sentences 	Clauses <ul style="list-style-type: none"> • Gap filling • Re-ordering of sentences • Transformation of sentences 	Tenses <ul style="list-style-type: none"> • Gap filling • Re-ordering of sentences • Transformation of sentences 	Clauses <ul style="list-style-type: none"> • Gap filling • Re-ordering of sentences • Transformation of sentences + Complete CBSE Syllabus

PHYSICS

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
NCERT	<p>Unit I: Physical World and Measurement Ch.1 Units and Measurements</p> <p>Unit II: Kinematics Ch.2 Motion in a Straight Line Ch.3 Motion in a Plane</p> <p>Unit III: Laws of Motion Ch.4 Laws of Motion</p>	<p>Unit IV: Work, Energy and Power Ch.5 Work, Energy and Power</p> <p>Unit V: Motion of System of Particles and Rigid Body Ch.6 System of Particles and Rotational Motion + August UT syllabus</p>	<p>Unit VI: Gravitation Ch.7 Gravitation</p> <p>Unit VII: Properties of Bulk matter Ch.8 Mechanical Properties of Solids Ch.9 Mechanical Properties of Fluids</p>	<p>Unit VII: Properties of Bulk matter Ch.10 Thermal Properties of Matter</p> <p>Unit VIII: Thermodynamics Ch.11 Thermodynamics</p> <p>Unit IX: Behaviour of Perfect Gases and Kinetic theory of gases Ch.12 Kinetic Theory</p> <p>Unit X: Oscillations and Waves Ch.13 Oscillations Ch.14 Waves + Complete CBSE Syllabus</p>
Practicals	<p>1. To measure diameter of a small spherical/cylindrical body and to measure internal diameter and depth of a given beaker/ calorimeter using Vernier Callipers and hence find its volume.</p> <p>2. To measure diameter of a given wire and thickness of a given sheet using screw gauge</p> <p>3. To determine radius of curvature of a given spherical surface by a spherometer.</p> <p>4. To determine the mass of two different objects using a beam balance .</p>	<p>5.To find the weight of a given body using parallelogram law of vectors.</p> <p>6. Using a simple pendulum, plot its L-T² Graph and use it to find the effective length of second's pendulum</p> <p>7. To find the downward force along an inclined plane, acting on a roller due to gravitational pull of the earth and study its relationship with the angle of inclination(θ) by plotting a graph between force and $\sin \theta$.</p>	<p>8.To find the force constant of a helical spring by plotting a graph between load and extension.</p> <p>9.To determine the surface tension of water by capillary rise method.</p> <p>10.To study between the temperature of a hot body and time by plotting a cooling curve.</p> <p>11. To determine the specific heat capacity of a given solid by method of mixtures.</p>	<p>12. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions. + Complete CBSE Syllabus</p>

CHEMISTRY

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
NCERT	<p>Unit 1: Some Basic Concepts of Chemistry</p> <p>Unit 2: Structure of Atom</p>	<p>Unit 3: Classification of Elements and Periodicity in Properties</p> <ul style="list-style-type: none"> • s – block & p –block Elements <p>Unit 4: Chemical Bonding and Molecular Structure</p> <p>Unit 5: Chemical Thermodynamics</p> <p>+ August UT Syllabus</p>	<p>Unit 6: Equilibrium</p> <ul style="list-style-type: none"> • The Gaseous State <p>Unit 7: Redox Reactions</p>	<p>Unit 8: Organic Chemistry: Some Basic Principles and Techniques</p> <p>Unit 9: Hydrocarbons + Complete Syllabus as per CBSE</p>
Practicals	<p>1. To prepare the crystals of copper sulphate from impure sample of blue vitriol</p> <p>2. To analyse the given inorganic mixture containing acidic and basic radicals.</p>	<p>3. To study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/decreasing the concentration of either of the ions.</p> <p>4. To analyse the given inorganic mixture containing acidic and basic radicals.</p> <p>5. Determination of pH of some solutions obtained from fruit juices, solutions of known and varied concentrations of acids, bases and salts using pH paper.</p>	<p>6. Preparation of Standard solution of Oxalic acid.</p> <p>7. Determination of Strength of a given solution of Sodium hydroxide by titrating it against standard solution of Oxalic acid.</p>	<p>8. Preparation of standard solution of Sodium carbonate.</p> <p>9. Determination of strength of a given solution of hydrochloric acid by titrating it against standard Sodium Carbonate solution.</p> <p>+ Complete CBSE Syllabus</p>

Mathematics

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
NCERT + Assignments	Unit I: Sets and Functions Ch.1 Sets Ch. 2 Relations and Functions Ch. 3 Trigonometric Functions (Ex 3.1 and 3.2)	Ch. 3 Trigonometric Functions Unit II: Algebra Ch. 4 Complex Numbers and Quadratic Equations Ch. 5 Linear Inequalities Ch. 6 Permutations and Combinations + August UT Syllabus	Ch. 7 Binomial Theorem Ch.8 Sequence and Series Unit III: Coordinate Geometry Ch. 9 Straight Lines	Ch. 10 Conic Sections Ch. 11 Introduction to Three Dimensional Geometry Unit IV: Calculus Ch. 12 Limits and Derivatives Unit V: Statistics and Probability Ch. 13 Statistics Ch. 14 Probability + Complete CBSE Syllabus

BIOLOGY

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
NCERT	Unit I: Diversity of Living Organisms Ch.1 The Living World Ch.2 Biological Classification Ch.3 Plant Kingdom Ch.4 Animal Kingdom	Unit II: Structural Organization in Plants and Animals Ch.5 Morphology of Flowering Plants Ch.6 Anatomy of Flowering Plants Ch.7 Structural Organisation in Animals Unit III: Cell: Structure and Function Ch.8 Cell-The Unit of life Ch.9 Biomolecules Ch.10 Cell Cycle and Cell Division + August UT Syllabus	Unit IV: Plant Physiology Ch.11 Photosynthesis in Higher Plants Ch.12 Respiration in Plants Ch.13 Plant Growth and Development	Unit-V: Human Physiology Ch.14 Breathing and Exchange of Gases Ch.15 Body Fluids and 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 + Complete CBSE Syllabus

Practicals	<p>(Section A) Experiments:</p> <ol style="list-style-type: none"> 1. Study and describe locally available common flowering plants, from family Solanaceae (Poaceae, Asteraceae or Brassicaceae can be substituted in case of particular geographical location) including dissection and display of floral whorls, anther and ovary to show number of chambers (floral formulae and floral diagrams), type of root (tap and adventitious); type of stem (herbaceous and woody); leaf (arrangement, shape, venation, simple and compound). 2. Preparation and study of T.S. of dicot and monocot roots and stems (primary). 3. Study of osmosis by potato osmometer. 	<ol style="list-style-type: none"> 4. Study of distribution of stomata on the upper and lower surfaces of leaves. 5. Comparative study of the rates of transpiration in the upper and lower surfaces of leaves. 6. Test for the presence of sugar, starch, proteins and fats in suitable plant and animal materials. 7. Separation of plant pigments through paper chromatography. <p>(Section B) Spotting:</p> <ol style="list-style-type: none"> 1. Parts of a compound microscope. 2. Specimens/slides/models and identification with reasons - Bacteria, Oscillatoria, Spirogyra, Rhizopus, mushroom, yeast, liverwort, moss, fern, pine, one monocotyledonous plant, one dicotyledonous plant and one lichen. 3. Virtual specimens/slides/models and identifying features of Amoeba, Hydra, liverfluke, Ascaris, leech, earthworm, prawn, silkworm, honey bee, snail, starfish, shark, rohu, frog, lizard, pigeon and rabbit. 	<p>(Section A) Experiments:</p> <ol style="list-style-type: none"> 8. Study of plasmolysis in epidermal peels (e.g. Rhoeo/lily leaves or flashy scale leaves of onion bulb). 9. Study of the rate of respiration in flower buds/leaf tissue and germinating seeds. 10. Test for presence of urea in urine. 11. Test for presence of sugar in urine. 12. Test for presence of albumin in urine. 13. Test for presence of bile salts in urine. 	<p>(Section B) Spotting:</p> <ol style="list-style-type: none"> 4. Mitosis in onion root tip cells and animals cells (grasshopper) from permanent slides. 5. Types of inflorescence (cymose and racemose). 6. Human skeleton and different types of joints with the help of virtual images/models only. <p>+ Complete CBSE Syllabus</p>
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PHYSICAL EDUCATION

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
NCERT	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 + August UT syllabus	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 + Complete Syllabus as per CBSE
Practicals	1. Fitness tests administration. (SAI Khelo India Test).	2. Procedure for Asanas, Benefits & Contraindication for any two Asanas for each lifestyle disease. + August UT Syllabus	3. Anyone one IOA recognized Sport/Game of choice. Labelled diagram of Field & Equipment. Also mention its Rules, Terminologies & Skills.	Complete CBSE Syllabus

Computer Science

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
Sumita Arora	CH-1 Computer System Overview CH-2 Data Representation CH-3 Boolean Logic CH-4 Getting Started With Python	CH-5 Python Fundamental CH-6 Flow of Control CH-7 String Manipulation + August UT Syllabus	CH-8 List Manipulation CH-9 Tuples CH-10 Dictionaries	CH-11 Cyber Safety CH-12 Society, Law and Ethics + Complete CBSE Syllabus

HOME SCIENCE

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
Home Science	Unit- 1 Introduction to Home Science Unit -3 Understanding family, community and Society Ch- 7A Concerns and needs in Diverse context- Nutrition, Health and Hygiene Ch- 7B Resources availability and Management	Unit-2 Understanding one-self Adolescence Ch-2 Understanding the self Ch-3 Food, Nutrition, Health and Fitness Ch-4 Management of Resources Ch-5 Fabric Around Us Ch-6 Media and Communication Technology + August UT Syllabus	Unit-4 Childhood Ch-8 Survival, growth and Development Ch-9 Nutrition, Health and Well being Ch-10 Our Apparel	Unit- 5 Adulthood Ch-11 Health and Wellness Ch-12 Financial Management and Planning Ch-13 Care and Maintenance of Fabric + Complete CBSE Syllabus

FASHION STUDIES

Book	August Unit Test	Half Yearly Examination (September)	November Unit Test	Annual Examination
Employability Skills	Unit 1: Communication Skills III Unit 2: Self Management Skills III	Unit 3: ICT Skills-III Unit 4: Entrepreneurial Skills-III + August UT Syllabus	Unit 5: Green Skills-III	Complete CBSE Syllabus
Learning Resource	Unit 1: Overview of Fashion 1.1 Understanding Fashion: Introduction and Definition	Unit 1: Overview of Fashion 1.9 International Trade in Fashion 1.10 Regulatory Bodies in Fashion and Textiles Sector in India 1.11 Role of Fashion Professionals 1.12 Fashion Institutes	Unit 3: Design Fundamentals 3.1 Design, Designer and Design Process 3.2 Elements of Design	Unit 4: Materials Tools and Processes of Product Making 4.1 Introduction 4.2 Sewing Tools & Safety Rules 4.3 Fashion Products

	<p>1.2 Factors Influencing Fashion</p> <p>1.3 Key Concepts and Terminology</p> <p>1.4 Movement and Direction of Fashion</p> <p>1.5 Theories of Fashion Movement</p> <p>1.6 Consumer Segmentation</p> <p>1.7 Salient Characteristics of Fashion Designers and Brands</p> <p>1.8 Brands and E brands</p>	<p>Unit 2: Introduction to Fabrics, Dyeing & Printing</p> <p>2.1 Introduction</p> <p>2.2 Textile Fibres</p> <p>2.3 Yarns</p> <p>2.4 Weaving</p> <p>2.5 Dyeing</p> <p>2.6 Printing</p> <p>+ August UT Syllabus</p>	<p>3.3 Colour Theory & Colour Psychology</p> <p>3.4 Principles of Design</p> <p>3.5 Illustrating Apparel on the Fashion Figure</p>	<p>+ Complete CBSE Syllabus</p>
Practicals	<p>1. Relating fashion cycles theories to fashion trends</p> <p>2. Application of textile swatch on any product</p> <p>3. Burning test for fibre identification</p> <p>4. Constructing basic weaves</p>	<p>5. Colour wheel- primary, secondary and tertiary colours</p> <p>6. Value charts- Tints and Shades</p> <p>7. Nature as inspiration for design</p> <p>8. Application of colour psychology to colour schemes</p> <p>9. Applications of elements and principles of designs</p> <p>10. Development of eight head fashion croquis- Block Figure</p>	<p>11. Prepare samples of hand-stitches (basting, hemming etc.)</p> <p>12. Prepare sample of plain seam</p> <p>13. Prepare samples of seam finishes; self enclosed seams</p>	<p>14. Prepare samples of seam with fullness- gathers, pleats and tucks.</p> <p>+ Complete CBSE Syllabus</p>