

LDC PUBLIC SCHOOL

SYLLABUS 2021-22

CLASS – 11th

Subject – English

Month	Chapters Name	Art integration project
1 st Term	April <u>HORNBILL-</u> (Prose)Chapter-1. The Portrait of a Lady. (Prose)Chapter-2. We are Not Afraid to Die..... (Poetry) Chapter-1. A Photograph. <u>SNAPSHOTS -</u> (Prose) Chapter-1. The Summer of the Beautiful White Horse. (Prose) Chapter-2. The Address. <u>READING & WRITING AND GRAMMAR -</u> 1. Note Making and Summarizing. 2. Error Correction.	<p style="text-align: center;"><u>CREATIVE WRITING</u> - IMPORTANCE OF MEDIA IN TODAY'S ERA.</p> <p style="text-align: center;"><u>PUBLIC SPEAKING</u> - INFLUENCE OF MEDIA IN OUR LIFE.</p>
	May <u>HORNBILL-</u> (Prose)Chapter-3. Discovering Tut.. <u>SNAPSHOTS -</u> (Prose)Chapter-3. Ranga's Marriage. <u>READING & WRITING AND GRAMMAR -</u> 1. Modals.	
	July <u>HORNBILL-</u> (Poetry) Chapter-2. The Laburnum Top. <u>READING & WRITING AND GRAMMAR -</u> 1. Note Making and Summarizing.....contd. 2. Reordering and Transformation of sentences. Posters.	
	Aug <u>HORNBILL-</u> (Prose) Chapter-4. Landscape of the Soul. (Poetry) Chapter-3. The Voice of the Rain. <u>SNAPSHOTS -</u> (Prose) Chapter-4. Albert Einstein at School. <u>READING AND WRITING -</u> 1. Article and Debate Writing 2. Letter Writing,(FORMAL AND INFORMAL) 3. Invitations & Replies.	
	Sept <u>HORNBILL-</u> (Prose) Chapter-5. The Ailing Planet. (Prose) Chapter-6. The Browning Version. <u>SNAPSHOTS -</u> (Drama) Chapter-5. Mother's Day. <u>READING AND WRITING -</u> 1. Speech and Report Writing. 2. Notice. 3. Letter Writing.(FORMAL AND INFORMAL).....contd.	
2 nd Term	Oct <u>HORNBILL-</u> (Prose) Chapter 7. The Adventure. (Poetry) Chapter 4. Childhood. <u>SNAPSHOTS -</u> (Drama) Chapter 5. Mother's Day.....contd. (Prose) Chapter 6. The Ghat of the Only World. <u>READING AND WRITING -</u> 1. Application for Job with Resume.	
	Nov <u>HORNBILL -</u> (Prose) Chapter 8. Silk Road. (Poetry) Chapter 5. Father to Son. <u>SNAPSHOTS -</u> (Prose) Chapter 7. Birth. (Poetry) Chapter 8. The Tale of Melon City.	
	Dec <u>SNAPSHOTS -</u> (Poetry) Chapter 8. The Tale of Melon City. REVISIONS.	
	Jan REVISIONS	
	Feb REVISIONS	

Subject – Mathematic

Month	Mathematics	Mathematics Practical	Art integration project
1st Term	April	Unit-1 st 1. Sets 2. Relations and Functions	To understand the meaning of Algebraic concept of discrete Mathematics Science word
	May	3. Trigonometric Functions	To analysis of Trigonometric functions in Mathematical word
	July	Unit-2 nd 4. Principle of Mathematical Induction 5. Complex Numbers and Quadratic Equations	To understand logic of imaginary number
	Aug	6. Linear Inequalities 7. Permutations and Combinations	To find the interval of inequalities and use of permutation and combination in logical statements
	Sept	8. Binomial Theorem 9. Sequence and Series	To understand the meaning and algebraic operation of nth term of series
2nd Term	Oct	Unit-3 rd 10. Straight Lines 11. Conic Sections 12. Introduction to Three-dimensional Geometry	To analysis the Curves and lines by the help of geometry
	Nov	Unit-4 th 13. Limits and Derivatives Unit-5 th 14. MATHEMATICAL REASONING	What is Meaning of Calculus
	Dec	Unit-6 th 15. Statistics 16. Probability	Use of statistics in arrangement of data with high efficiency To use of probability in complex problems and random operations
	Jan	Revision	Revision
	Feb	Revision	Revision

1-Printing: Mono-printing, printing with woodcut blocks, lino cut and metal foil Serigraphy (silk screen) self made stencil.
2-Study of of calligraphic strokes of devnagri and Roman alphabet (scripts)

Subject – Hindi

Month	Literature	Language	L.S.R.W
1 st Term	Arp हिंदी काव्य १) कबीर (साखी) हिंदी गद्य १) 'नमक का दरोगा' _ मुंशी प्रेमचंद (कहानी) वितान पुस्तक १) 'भारतीय गायिकाओं में बेजोड़ गायिका लता मंगेशकर' (कुमार गंधर्व)	अभिव्यक्ति माध्यम एवं रचनात्मक लेखन १) जनसंचार एवं संचार २) अपठित लेखन ३) पत्र लेखन	'हिंदी भाषा का महत्व' रचनात्मक लेखन
	May Revision	Revision	मौखिक अभिव्यक्ति परीक्षा
	July हिंदी काव्य १) मीराबाई 'पद' हिंदी गद्य १) 'मियां नसीरुद्दीन' (संस्मरण) कृष्णा सोबती	अभिव्यक्ति माध्यम एवं रचनात्मक लेखन १) इलेक्ट्रॉनिक माध्यम (जनसंचार)	रचनात्मक लेखन प्राकृतिक संपदा या इन उपकरणों का जीवन पर प्रभाव
	Aug २) 'वे आंखें' _ सुमित्रानंदन 'पंत' २) बालमुकुंद गुप्त 'विदाई संभाषण' (लेख) वितान पुस्तक १) 'राजस्थान की रजत बूंदें' अनुपम मिश्र	अभिव्यक्ति माध्यम एवं रचनात्मक लेखन १) इलेक्ट्रॉनिक माध्यम (शिक्षण संबंधी)	मौखिक अभिव्यक्ति परीक्षा मानवीय मूल्यों का जीवन पर प्रभाव
	Sep हिंदी काव्य १) 'गजल' _ दुष्यंत कुमार हिंदी गद्य १) 'जामुन का पेड़' _ कृष्ण चंदर	अभिव्यक्ति माध्यम एवं रचनात्मक लेखन १) फीचर लेखन २) आलेख लेखन ३) विशेष लेखन	रचनात्मक लेखन परीक्षा छह ऋतु का वर्णन
2 nd Term	Oct हिंदी काव्य १) 'घर की बात' (कविता) _ भवानी प्रसाद मिश्र १) 'गलता लोहा' _ शेखर जोशी (कहानी)	अभिव्यक्ति माध्यम रचनात्मक लेखन १) पत्रकारिता २) पत्र पत्रिकाएं	मौखिक अभिव्यक्ति परीक्षा छात्र जीवन में अनुशासन का महत्व
	Nov २) 'आओ मिलकर बचाएं' 'निर्मला पुतुल २) 'स्पीति में बारिश' _ कृष्णनाथ	३) श्रव्य दृश्य संचार	हिन्दी मौखिक परीक्षा
	Dec वितान पुस्तक १) 'आलो आंधारि' बेबी हालदार हिंदी गद्य १) 'भारत माता' _ जवाहरलाल नेहरू	-----	
	Jan Revision	Revision	
	Feb Revision	Revision	
Art Integration	पर्यावरण के विभिन्न रंगों एवं उपादानों का सामान्य जन जीवन में प्रयोग (लघु कहानी एवं नाटक के द्वारा) संबंधित विषय - 1- विज्ञान, 2- भाषा साहित्य, 3- इतिहास, 4- भूगोल, 5- पर्यावरण		

Subject – Physics

		Month	Theory	Practical
1 st Term	Apr	1. Physical World and Measurement	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. 2. To measure diameter of a given wire and thickness of a given sheet using screw gauge. OR To determine volume of an irregular lamina using a screw gauge.	
	May	2. Kinematics	3. To determine radius of curvature of a given spherical surface by a spherometer. 4. To determine the mass of two different objects using a beam balance. 5. To find the weight of a given body using parallelogram law of vectors.	
	July & Aug	3. Laws of Motion	6. Using a simple pendulum, plot its L-T ² graph and use it to find the effective length of second's pendulum. OR To study variation of time period of a simple pendulum of a given length by taking bobs of same size but different masses and interpret the result. 7. To study the relationship between force of limiting friction and normal reaction and to find the coefficient of friction between a block and a horizontal surface. OR To find the downward force, along an inclined plane, acting on a roller due to the gravitational pull of the earth and studying its relationship with the angle of inclination θ by plotting a graph between force and $\sin \theta$.	
2 nd Term	Sep & Oct	4. Work, Energy and Power	8. To determine Young's modulus of elasticity of the material of a given wire. OR To find the force constant of a helical spring by plotting a graph between load and extension.	
	Nov	5. Motion of System of Particles and Rigid Body 6. Gravitation	9. To study the variation in volume with pressure for a sample of air at constant temperature by plotting graphs between P and V, and between P and 1/V. 10. To determine the surface tension of water by capillary rise method. OR To determine the coefficient of viscosity of a given viscous liquid by measuring terminal velocity of a given spherical body. 11. To study the relationship between the temperature of a hot body and time by plotting a cooling curve.	
	Dec	7. Properties of Bulk Matter 8. Thermodynamics 9. Theory of Gases Oscillations and Waves	12. To determine specific heat capacity of a given solid by method of mixtures. 13. To study the relation between frequency and length of a given wire under constant tension using a sonometer. OR To study the relation between the length of a given wire and tension for constant frequency using a sonometer. 14. To find the speed of sound in air at room temperature using a resonance tube by two resonance positions.	
	Jan	Revision	Revision	
	Feb	Revision	Revision	
	Art Integration			Study of various materials such as clay, plaster of paris, soft-stone, wood (blocks, twigs and branches, roots, etc.), metal scraps, plastic sheets, bamboo, wire thread, papers and cardboards, vegetables and other throw-away available materials.

Subject – Chemistry

		Month	Chapter Name	Practical's
1 st Term	Apr	1. Some basic concept of chemistry 2. Structure of atom 3. Classification of element & periodicity in properties		1. Cutting glass tube and glass rod 2. Bending a glass tube 3. Drawing out a glass jet 4. Boring a cork Characterization and purification of chemical substances 1. Determination of melting point an organic compound 2. Determination of boiling point of an organic compound 3. Crystallization of impure sample of any one of the following alum, Copper sulphate, benzoic acid

	May	Chemical bonding and molecular structure	<p>Experiment based on pH</p> <p>(a) Any one the following experiments.</p> <p>(i) Determination of pH of some solutions obtained from fruit juices, solution of known and varied concentrations of acids , bases and salts using pH paper or universal indicator.</p> <p>(ii) Comparing the pH of solutions of strong and weak acids of same concentration.</p> <p>(iii) Study the pH change in the titration of a strong base using universal indicator.</p> <p>Study the pH change by common ion in case of weak acids and weak bases.</p>
	Jul	<p>*Solid state</p> <p>*Organic chemistry : some basic principles and techniques</p>	<p>One of the following experiments:</p> <p>(a) Study the shift in equilibrium between ferric ions and thiocyanate ions by increasing/ decreasing the concentration of either of the ions.</p> <p>(b) Study the shift in equilibrium between $(CO(H_2O)_6)^{2+}$ and chloride ions by changing the concentration of either of the ions.</p>
	Aug	*Hydrocarbons	<p>(a) Using a chemical balance.</p> <p>(b) Preparation of standard solution of Oxalic acid.</p> <p>(c) Determination of strength of a given solution of sodium Hydroxide by titrating it against standard solution of Oxalic acid.</p> <p>(d) Preparation of standard solution of carbonate</p> <p>Determination of strength of a given solution of Hydrochloric acid by titrating it against standard sodium carbonate solution .</p>
	Sep	<p>*Group 15th element</p> <p>*S-Block elements</p> <p>*Equilibrium</p> <p>*Redox reactions</p>	<p>Qualitative Analysis</p> <p>(a) Determination of one anion and one cation a given salt:</p> <p>Cations : $Pb^{2+}, Cu^{2+}, As^{3+}, Al^{3+}, Fe^{3+}, Mn^{2+}, Ni^{2+}, Zn^{2+}, Co^{2+}, Ca^{2+}, Sr^{2+}, Ba^{2+}, Mg^{2+}, NH_4$</p> <p>Anions : $Co^{2-}, S^{2-}, So^{2-}, So^{2-}, No^{2-}, I, Br, I, Po^{3-}, C O^{2-} 3 \quad 3 \quad 4 \quad 3$</p> <p>$CH_3COO$</p>
2nd Term	Oct	<p>*Redox reactions</p> <p>*Hydrogen</p>	<p>Detection of nitrogen, Sulphur, Chlorine in organic compounds.</p> <p>Project:- Scientific investigations involving laboratory and collecting information from other sources . A few suggested projects.</p> <ol style="list-style-type: none"> 1. Checking the bacterial contamination in drinking water by testing sulphide ion. 2. Study of the methods of purification of water 3. Testing the hardness, presence of iron, fluoride, chloride, etc, depending upon the regional variation in drinking water and study of causes of presence of these ions above permissible limit (if any). 4. Investigation of the foaming capacity of different washing soaps and effect of addition of sodium carbonate on it. 5. Study the acidity of deferent samples of tea leaves. 6. Determination of the rate of evaporation of different liquids. 7. Study the effect of acids and basses on the tensile strength of fibres. <p>Study of acidity of fruit and vegetable juices.</p>
	Nov	<p>*Hydrogen</p> <p>*Environmental chemistry</p>	Revision
	Dec	Revision	Revision
	Jan	Revision	Revision
	Feb	Revision	Revision
Art Integration	Study of visual resources (at home and in the surroundings) and means of creative expression		

Subject – Biology

		Month	Chapter Name	Practicals
1 st Term	Apr		1. The living word 2. Biological classification	Study and describe three locally available common flowering plants, One form each of the families solanaceae, fabaceae, and liliaceae including dissection and display of floral parts and anther and ovary to show number of chambers. type of roots (taproot and adventitious) stem (herbaceous) and (woody) leaf (arrangement, shape, venation, simple and compound)
	May		3. Plant Kingdom 4. Animal Kingdom	Preparation and study of TS of dicot and monocot root and stem. Study of osmosis by potato osmometer.
	Jul		5. Morphology of a flowering plant. 6. Anatomy of a flowering plant	Study of plasmolysis in epidermal peel. Spotting.
	Aug		7. Structural organisation in animals. 8. Cell - the unit of life.	Study of distribution of stomata in the upper and lower surface of leaves. Comparative study of the rates of transpiration in the upper and lower surface of leaves.
	Sep		9. Biomolecules 10. Cell cycle and cell division. 11. Transport in plants	Test for the presence of sugar, starch, proteins and fats to detect these in suitable plant and animal materials. Separation of plant pigment through paper chromatography
2 nd Term	Oct		12. Mineral nutrition. 13. Photosynthesis in higher plants 14. Respiration in plants	To study the rate of respiration in the flower buds/leaves tissue and germinating seeds. To test the presence of urea in urine
	Nov		15. Plant growth and development. 16. Digestion and absorption. 17. Breathing and exchange of gases.	To detect the presence of sugar in urine. To detect the presence of albumin in urine.
	Dec		18. Body fluids and circulation. 19. Excretory products and their elimination. 20. Locomotion and movement.	To detect the presence of bile salt in urine.
	Jan		21. Neural control and coordination. 22. Chemical co-ordination and integration.	
	Feb		Revision	
	Mar		Final exam	
Art Integration Project			1. Reproductive part of flower (for even roll number) 2. DNA Vs RNA (for odd roll number)	

Subject – Business Studies

		Month	Chapter	Project	Art Integration
1 st Term	April		Ch. – 1: Nature and Purpose of Business	Any One : 1. Insurance 2. Small Scale Industries	Exercise in creation of Plot and Conflict based on 1. Episodes from stories from textbooks or story books 2. Short scenes from Classical dramas
	May		Ch. – 2: Forms of Business Organization		
	July		Ch. – 3: Public, Private and Global Enterprise		
	Aug		Ch. – 4: Business Service		
	Sept		Ch. – 5: Emerging mode of Business Ch. – 6: Social Responsibility of Business & Business Ethics		
2 nd Term	Oct		Ch. – 7: Source of Business Finance Ch. – 8: Small Business	Any one - I. E-Commerce (Product Marketing) II. Changing Pattern of Education System from Offline to Online	
	Nov		Ch. – 9: Internal Trade Ch. – 10: International Business		
	Dec		Revision		
	Jan		Revision		
	Feb		Revision		
	Mar		Annual Exam		

Subject – Banking

	Month	Chapter	Project	Art Integration
1 st Term	April	Ch. – 1: Communication Ch. – 2: Introduction to Banking	Project File – (1) Visit the websites of five different commercial banks (Three Public sector and two private sector banks) and get the details of the various Retail Banking Products offered by them. (2) List various documents to be submitted by the customers for applying for each product. You can obtain sample forms from any of the banks.	Exercise in creation of Plot and Conflict based on 1. Episodes from stories from textbooks or story books 2. Short scenes from Classical dramas
	May	Ch. – 3: Banker and Customer		
	July	Ch. – 4: Self Management Skills		
	Aug	Ch. – 5: Information and Communication Technology Skills		
	Sept	Ch. – 6: Entrepreneurial Skills		
2 nd Term	Oct	Ch. – 7: Employment of Bank Funds	Practical File – (1) Visit the websites of five different commercial banks (Three Public sector and two private sector banks) and get the details of the various Retail Banking Products offered by them. (2) List various documents to be submitted by the customers for applying for each product. You can obtain sample forms from any of the banks.	
	Nov	Ch. – 8: Green Skills Ch. – 9: Negotiable Instruments		
	Dec	Revision		
	Jan	Revision		
	Feb	Revision		
	Mar	Annual Exam		

Subject – Accountancy

	Month	Chapter	Project	Art Integration
1 st Term	April	Ch. – 1: Introduction to Accounting Ch. – 2: Basic Accounting Terms Ch. – 3: Theory Base of Accounting, Accounting Standards and IFRS	Comprehensive Project 1– <ul style="list-style-type: none"> • Indian Accounting Standards • International Financial Reporting Standards • GAAP 	Exercise in creation of Plot and Conflict based on 1. Episodes from stories from textbooks or story books 2. Short scenes from Classical dramas
	May	Ch. – 4: Process of Accounting Ch. – 5: Accounting Equation		
	July	Ch. – 6: Books of Original Entry – Journal Ch. – 7: Books of Original Entry – Cash Book		
	Aug	Ch. – 8: Ledger Ch. – 9: Trial Balance Ch. – 10: Bank Reconciliation Statement		
2 nd Term	Sept	Ch. – 11: Depreciation Ch. – 12: Provisions and Reserves	Comprehensive Project 2– <ul style="list-style-type: none"> • Select any Business Form and Extract the ledger and trial balance • Prepare Financial Statements 	
	Oct	Ch. – 13: Bills of Exchange Ch. – 14: Rectification of Errors		
	Nov	Ch. – 15: Financial Statements – without adjustments Ch. – 16: Financial Statements – with adjustments		
	Dec	Revision		
	Jan	Revision		
	Feb	Revision		
	Mar	Annual Exam		

Subject – Economics

	Month	Micro	Statistics	Project	Art Integration
1st Term	April	Ch. – 1: Economics and Economy Ch. – 2: Central problems of a economy	Ch. -1: Concept of economic significance of statistics in economics Ch. -2: Collection of Data	Any one – 1. Impact of Covid-19 on Economy 2. Poverty	Exercise in creation of Plot and Conflict based on 1.Episodes from stories from textbooks or story books 2. Short scenes from Classical dramas
	May	Ch. – 3: Consumer’s Equilibrium : Utility analysis Ch. – 4: Consumer’s Equilibrium : Indifference Curve	Ch. – 3: Census and Sample methods of collection of Data Ch. – 4: Organization of Data		
	July	Ch. – 5: Theory of Demand Ch. – 6: Price Elasticity of Demand	Ch. – 5: Presentation of Data – textual and tabular presentation Ch. -6: Diagrammatic presentation of data – bar diagrams and pie diagrams		
	Aug	Ch. -7: Production function and return to a factor Ch. – 8: Concept of Cost	Ch. – 7: Frequency diagrams : histogram, polygon and ogive Ch. – 8: Arithmetic line – groups or time series		
	Sept	Ch. -9: Concept of Revenue Ch. -10: Producer’s Equilibrium	Ch. – 9: Measurement of Central tendency – arithmetic mean Ch. – 10 : Measurement of central tendency – median & mode		
2nd Term	Oct	Ch. – 11: Theory of Supply Ch. – 12: Forms of Market	Ch. – 11 : Measure of dispersion Ch. – 12 : Correlation	Any one – 1. Elaborate the financial budget (current year) 2. Make in India	
	Nov	Ch. – 13: Market Equilibrium	Ch. – 13 : Index Number		
	Dec	Revision	Revision		
	Jan	Revision	Revision		
	Feb	Revision	Revision		
	Mar	Annual Exam			

Subject – Physical Education

	Month	Theory 70 Marks	Practical 30 Marks	Yoga And Game	Art Integration project
1st Term	April	Unit 1 : Planning in Sport Unit 2 : sport & nutrition	1. Physical Fitness Test -6 Marks 2. Proficiency in Games and Sports(Skill of any one Game of choice from the given list) 7 Marks	Surya Namaskar ,Tadasana ,Shashankasana ,Chakrasana	Topic
	May	Unit 3 :Yoga & lifestyle Unit 4 : physical Education & Sports for (CWSN)	3. Yogic Practices - 7 Marks 4. Record File -- 5 Marks	Bhujangasan , Shalabhasan Dhanurasan	Dance as a form of nonverbal Communication , exhibited through Gymnastics, figure skating, martial arts as well.
	July	Unit 5 : children & Women in Sports Unit 6 : Test & Measurement in Sports	5. Viva Voce(Health/Games and Sports/Yoga) - 5 Marks Cricket, Football , Badminton, , Kho-Kho, Kabaddi, Volleyball, Basketball, Bocce & Unified Basketball [CWSM].	Cricket & Volley Ball	
	Aug	Unit 7 : Physiology & injuries in Sports Unit 8 : Biomechanics & Sports		Athletics : 100 m 200m 400M Javelin Shotput Discuss	
	Sept	Unit 9 : Psychology & sports	** Record File shall include Practical 1:Labelled diagram of 400m Track and Field with computations.	Prnayam : 1 Bhastrika 2 Kapalbhathi 3 Ujjain 4 Bhramari 5 Anulom vilom	
2nd Term	Oct	Unit 10 :Training in Sports	Practical 2: Computation of BMI from family Or neighbourhood and graphical representation of the data .		
	Nov	Revision			
	Dec	Revision			
	Jan	Revision	Practical 3: Labelled diagram of field and equipment of any one game of		

	Feb	Revision	your choice out of the above list . Practical 4:List of current National Awardees(Dronacharya Award Arjuna Award and Rajiv Gandhi Khel Ratna Award) Practical 5:Pictorial presentation of any five asanas for improving concentration		
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Subject – Computer

	Month	Chapter	Art Integration
1st Term	April	1. Introduction to Python 2. Computer system overview 3. Data representation	Role of media and channels
	May	4. Operators 5. Python fundamentals 6. Data handling	
	July	7. Flow of control 8. Errors and exceptions 9. Conditional and iterative statements 10. String manipulation	
	Aug	11. Data structure 12. String 13. List, tuples, dictionaries	
	Sept	14. Computer system and organization 15. Understanding sorting	
2nd Term	Oct	16. Data management 17. Relational databases 18. Simple queries in SQL	
	Nov	19. Society law and ethics-cyber safety 20. Table creation and data manipulation	
	Dec	Revision	
	Jan	21. Cyber safety overview	
	Feb	Revision	
	Mar	Annual Exam	