



# Choithram International

An IB World School

....because every child deserves the best



## Curriculum Planner DP 2017-19

Subject	Sem I	Sem II	Sem III	Sem IV
<b>English</b>	Part 1 : Language in Cultural Context: Gender Communities Politics Part 3 : Texts and Contexts : SL- The Great Gatsby Red Oleanders HL- The Great Gatsby Red Oleanders Jane Eyre  Part 4 : Critical Study : SL: Othello: The Moor of Venice Poems by John Keats HL: Othello: The Moor of Venice Poems by John Keats Heart of Darkness	Part 1 : Language in Cultural Context: Communities Part 3 : Texts and Contexts : SL- The Great Gatsby Red Oleanders HL- The Great Gatsby Red Oleanders Jane Eyre  Part 2 : Mass Communication: Textual Bias Use of Persuasive Language Stereotypes	Part 2 : Mass Communication: Textual Bias Stereotypes Part 4 : Critical Study : SL: Othello: The Moor of Venice Poems by John Keats HL: Othello: The Moor of Venice Poems by John Keats Heart of Darkness	Part 4 : Critical Study : SL: Othello: The Moor of Venice Poems by John Keats HL: Othello: The Moor of Venice Poems by John Keats Heart of Darkness Revision
<b>Hindi</b>	Part 4: Options- कबीर दोहे और साखियाँ लघुकथाएँ- खलील जिब्रान ठेले पर हिमालय (यात्रा संस्मरण ) धर्मवीर भारती	Part 3: Literary genres- आपका बंटी (उपन्यास) मन्नू भंडारी सुखदा (उपन्यास) जैनेन्द्र जैन सारा आकाश (उपन्यास) राजेन्द्र	Part 1 work in translation- रोमियो-जूलियट शेक्सपीयर (नाटक) अंतेन चेखव की लघु कथाएँ टैगौर का कविता संग्रह (गीतांजली) (HL Only)	Part 2: Detailed study चंद्रगुप्त ( नाटक) जयशंकर प्रसाद अहिल्याबाई (उपन्यास) वृंदावन लाल वर्मा नागार्जुन (कविता) (HL Only)

		यादव गबन (उपन्यास) प्रेमचंद (HL Only)		
<b>French <i>ab initio</i></b>	<b>Individual and Society</b> 1. Personal details, appearance and character 2. Daily routines 3. Foods and drinks 4. Education 5. Relationships	<b>Leisure and work</b> 1. Entertainment 2. Holidays 3. Sports 4. Transport	<b>Individual and society</b> 1. Shopping 2. Physical health  <b>Leisure and work</b> 1. Media 2. Technology	<b>Urban and rural environment</b> 1. Environmental concerns 2. Global issues 3. Physical geography 4. Neighbourhood 5. Town and services 6. Weather
<b>French B SL/HL</b>	<b>Core Unit 1: Social relations</b> • celebrations, social and religious events • educational system • language and cultural identity, or self-identity • linguistic dominance • minorities • multilingualism • nationalism, patriotism, fanaticism • relationships (friendship, work, family) • social and/or political structures • social behaviours and stances • taboos versus what is socially acceptable.	<b>Core Unit 2: Communication and media</b> • advertising • bias in media • censorship • internet • mail • press • radio and television • sensationalism in media • telephone.  <b>Core Unit 3: Global issues</b> • energy reserves • food and water • global warming, climate change, natural disasters • globalization • international economy • migration (rural–urban, or international) • poverty and famine • racism, prejudice, discrimination • the effect of man on nature • the	<b>Optional Unit:1 Customs and Traditions</b>  • Journey to French speaking countries: • Every country and its symbols, traditions and identity • For a better world? • In the road • May '68 • Algerian Independence • The Resistance • On the barricades • Rights of everyone	<b>Optional Unit:2 Health</b>  • Physical and mental health • Prohibitions: drogues and their side effects, addictions • Eating healthy and adequately(Right diet) • Anorexia

		environment and sustainability.		
<b>Business Management</b>	<p>1.1 Introduction to business management</p> <p>1.2 Types of organizations</p> <p>1.3 Organizational objectives</p> <p>1.4 Stakeholders</p> <p>1.5 External environment</p> <p>1.6 Growth and evolution</p> <p>1.7 Organizational planning tools (HL only).</p> <p>2.1 Functions and evolution Of human resource management</p> <p>2.2 Organizational structure</p> <p>2.3 Leadership and management</p> <p>2.4 Motivation</p> <p>2.5 Organizational (corporate) culture (HL only)</p> <p>2.6 Industrial/employee relations (HL only)</p>	<p>4.1 The role of marketing</p> <p>4.2 Marketing planning (including introduction to the four Ps)</p> <p>4.3 Sales forecasting (HL only)</p> <p>4.4 Market research</p> <p>4.5 The four Ps (product, price, promotion, place)</p> <p>4.6 The extended marketing mix of seven Ps (HL only)</p> <p>4.7 International marketing (HL only)</p> <p>4.8 E-commerce</p>	<p>3.1 Sources of finance</p> <p>3.2 Costs and revenues</p> <p>3.3 Break-even analysis</p> <p>3.4 Final accounts (some HL only)</p> <p>3.5 Profitability and liquidity ratio analysis</p> <p>3.6 Efficiency ratio analysis (HL only)</p> <p>3.7 Cash flow</p> <p>3.8 Investment appraisal (some HL only)</p> <p>3.9 Budgets (HL only)</p> <p>5.1 The role of operations management</p> <p>5.2 Production methods</p> <p>5.3 Lean production and quality management (HL only)</p> <p>5.4 Location</p>	<p>5.5 Production planning (HL only)</p> <p>5.6 Research and development (HL only)</p> <p>5.7 Crisis management and contingency planning (HL only)</p>
<b>Economics</b>	<p>Chapter-1:Foundations of Economics</p> <p>Chapter -2:Market demand and supply</p> <p>Chapter -3 Elasticity</p> <p>Chapter-4:Market failure and government intervention</p> <p>Chapter-5:Theory of Firm</p>	<p>Chapter-6:Market structures</p> <p>Chapter-7;Level of overall economic activity</p> <p>Chapter-8:Aggregate demand and supply</p> <p>Chapter-9:Macroeconomic objectives</p>	<p>Chapter-10:Demand and supply side policies</p> <p>Chapter-11:International trade protectionism</p> <p>Chapter 12:Exchange rate and Balance Of payments</p> <p>Chapter 13:Terms of trade and Economics Integration</p>	<p>Chapter-14:Understanding Economic development</p> <p>Chapter 15:Role of domestic and international factors and trade strategies</p> <p>Chapter 16:Foreign sources of finance and foreign debt</p> <p>Chapter 17:Consequences of economic growth</p> <p>Chapter 18;Balance</p>

				between market and intervention
<b>Psychology</b>	Unit 1 Introduction, Research in psychology, Unit 2 Biological level of analysis Unit 3 Cognitive level of analysis Unit 4 Sociocultural level of analysis	Option 1 Unit 5 - Abnormal psychology- concepts of normality, psychological disorders, implementing treatment, simple experimental study	Option 2 Unit 6 Human relationships- social responsibility, interpersonal relationships, violence, simple experimental study	Unit 7 Qualitative research- theory and practice, interviews, observations, case studies, writing paper 3 questions, writing papers in psychology
<b>Information Technology in Global Society</b>	Unit1: Overview of ITGS and 3 Strands Unit 5: Health, Education and Training Unit 9:Internet Multimedia/digital media ,AI	Unit 3:Databases and spreadsheets, Introduction to project management Unit 4:Robotics, artificial intelligence and expert systems Unit 6:Business and Employment	Unit 7:Modeling and simulation, Personal and public communications Unit 8:IT systems in organizations Unit2: Hardware, Software, Networks	Unit 10:Environment,P olitics and Government Unit 11:Home and leisure
<b>Physics</b>	Unit 1: Measurements Unit 2: Mechanics Unit 6: Circular motion and gravitation Unit 3: Thermal physics	Unit 5: Electricity and magnetism Unit 11: Electromagnetic induction (AHL) Unit 4: Waves Unit 9: Wave phenomena (AHL)	Unit 10: Fields (AHL) Option C: Imaging Unit 6: Atomic, nuclear and particle physics Unit 12: Quantum and nuclear physics (AHL)	
<b>Chemistry</b>	Unit 1: stoichiometry , Unit 2: Atomic structure Unit 3:Chemical periodicity	Unit 5: Thermochemistry Unit 6: Chemical Kinetics Unit 7:Chemical equilibrium	Unit :8 Measuring and data processing Unit 9: Redox processes Unit 10: Acids and Bases	Unit 11: Organic chemistry Unit 12: Option
<b>Biology</b>	1.2 Ultrastructure of cells 1.5 The origin of cells"	9.1 Transport in the xylem of plants 9.2 Transport in	3.1 Genes 3.2 Chromosomes 3.4 Inheritance 3.5 Genetic	5.3 Classification of biodiversity 5.4 Cladistics 4.1 Species,

	<p>1.3 Membrane structure</p> <p>1.4 Membrane transport</p> <p>1.5 The origin of cells</p> <p>2.1 Molecules to metabolism</p> <p>2.2 Water</p> <p>2.3 Carbohydrates and lipids</p> <p>2.4 Proteins"</p> <p>2.5 Enzymes</p> <p>2.8 Cell respiration</p> <p>8.1 Metabolism</p> <p>8.2 Cell respiration</p> <p>2.9 Photosynthesis</p> <p>8.3 Photosynthesis</p>	<p>the phloem of plants</p> <p>9.3 Growth in plants</p> <p>9.4 Reproduction in plants</p> <p>6.1 Digestion and absorption</p> <p>6.2 The blood system</p> <p>6.3 Defence against infectious disease</p> <p>6.4 Gas exchange</p> <p>6.5 Neurons and synapses"</p> <p>6.6 Hormones, homeostasis and reproduction</p> <p>11.1 Antibody production and vaccination</p> <p>11.2 Movement</p> <p>11.3 The kidney and osmoregulation</p> <p>11.4 Sexual reproduction:</p> <p>1.6 Cell division</p> <p>3.3 Meiosis</p> <p>2.6 Structure of DNA and RNA</p> <p>2.7 DNA replication, transcription and translation</p>	<p>modification and biotechnology</p> <p>7.1 DNA structure and replication</p> <p>7.2 Transcription and gene expression</p> <p>7.3 Translation</p> <p>10.2 Inheritance</p> <p>10.3 Gene pools and speciation</p> <p>D.1 Human nutrition</p> <p>D.2 Digestion</p> <p>D.3 Functions of the liver</p> <p>D.4 The heart</p> <p>D.5 Hormones and metabolism</p> <p>D.6 Transport of respiratory gases</p>	<p>communities and ecosystems</p> <p>4.2 Energy flow</p> <p>4.3 Carbon cycling</p> <p>4.4 Climate change</p> <p>5.2 Natural selection</p> <p>5.1 Evidence for evolution"</p>
<b>Computer Science</b>	<p>Unit 6: Networks</p> <p>Network fundamentals</p> <p>Data transmission</p> <p>Wireless networking</p> <p>Unit3 : System Fundamentals</p>	<p>Unit2 : Computational thinking, problem-solving and programming</p> <p>Unit 5: Options - Part One</p>	<p>Unit 5: Options - Part Two</p> <p>Database Modelling and Simulation</p> <p>Web Science</p> <p>Object Oriented Programming</p> <p>Unit1 : Computer</p>	<p>Unit 7 : Resource Management</p> <p>System resources</p> <p>Role of the operating</p> <p>Unit 8: Control</p>

		Database Modelling and Simulation Web Science Object Oriented Programming	Organization  Unit4 Abstract data structures	Centralized control systems Distributed systems
<b>Environmental Systems and Societies</b>	Unit 1: Foundations of Environmental Systems and Societies Unit 2: Ecosystem Unit 3: Conservation of Biodiversity  Internal Assessment: Introduction and skill development	Unit 4: Water Systems and Societies Unit 5: Soil Systems and Societies  Internal Assessment: Beginning of Investigation	Unit 6: Climate Change and Energy Production Unit 7: Atmospheric Systems and Societies  Internal Assessment: Progress of Investigation	Unit 8: Human Systems and Resource Use  Internal Assessment: Final Submission of Investigation
<b>Mathematics HL</b>	Unit 1 - Algebra : Sequences and series, Binomial Theorem, Mathematical Induction, Logarithm and Exponential, Mathematical Induction, Complex Numbers . Unit 2 - Function : Domain and Range, Inverse Functions, Composite functions, Inverse Functions, Transformation Function.	Unit 3 - Circular Functions and Trigonometry : Radian Measure, Non right angled trigonometry, Trigonometric graphs and functions, Trigonometric equations and identities. Unit 4 - Differential Calculus: Meaning of derivative, differentiation using first principle, differentiation of algebraic, exponential, trigonometric, logarithmic functions, concept of tangent normal, maxima and minima, Application of	Integral Calculus: Meaning of Antiderivative, Integration of algebraic, exponential, trigonometric, logarithmic functions, Substitution Method, Integration of product of two functions, Kinematics, Area and Volume of a function. Complex Numbers Statistics and Probability: Frequency Distribution, Probability, Discrete Random Variable, Continuous random variable, Binomial Distribution, Poisson Distribution, Normal Distribution.	Option Topic - Statistics and Probability : Linear combination of independent random variables, Sampling, Discrete and continuous probability distributions, Cumulative probability distributions, Probability generating functions, sampling Distribution, testing of hypothesis, Bivariate data.

		derivative, Kinematics.	Vectors: Meaning of Vectors, Concept of adding vectors using triangle law, Vector equation of a line and plane, Intersection of two lines, Intersection of a line and plane, Application of vectors.	
<b>Mathematics SL</b>	Unit 1 - Algebra : Sequences and series, Binomial Theorem, Logarithm and Exponential Unit 2 - Function : Quadratics, theory of functions, transformation of functions,	Unit 3-Circular Functions and Trigonometry : Radian Measure, Non right angled trigonometry, Trigonometric graphs and functions, Trigonometric equations and identities. Unit 4 - Differential Calculus: Meaning of derivative, differentiation using first principle, differentiation of algebraic, exponential, trigonometric, logarithmic functions, concept of Stationary points and points of inflexion, tangent normal, maxima and minima,	Integral Calculus: Meaning of Antiderivative, Integration of algebraic, exponential, trigonometric, logarithmic functions, Substitution Method, Kinematics, Area and Volume of a function. Unit -5 Vectors: Vector as displacement in plane, Scalar product, Vector equations, intersection of two vector lines Unit 6 Statistics: Vector as displacement in plane, Statistical measures and their interpretations. Cumulative frequency; cumulative frequency graphs; Linear correlation of bivariate data.	Concepts of trial, outcome, equally likely outcomes, sample space (U) and event. Combined events, Concept of discrete random variables and their probability distributions. Binomial distribution. Normal distributions and curves.
<b>Mathematics Studies SL</b>	Unit 1:• Number .Approximations and Significant figures, Percentage errors • Conversion of units and currency.	• Set theory, operations on sets, venn diagram and simple applications.	Trigonometric ratios of right triangle. • Angle of elevation and depression. • Sine rule, Cosine	Unit 7: Derivative of algebraic, • Gradient of a function • Tangent and Normal • Velocity and Acceleration •

	<ul style="list-style-type: none"> <li>• nth term of AP and GP and their sums.</li> <li>• Financial applications of GP and compound interest.</li> <li>• Simultaneous linear equations and quadratic equations.</li> </ul> <p>Unit 2• Frequency histograms,</p> <ul style="list-style-type: none"> <li>• stem and leaf diagram,</li> <li>• box and whisker plot.</li> <li>• Measure of central tendencies and dispersion.</li> </ul> <p>Concept of symbolic logic, propositions, compound statements, Truth tables.</p>	<p>Probability of an event, mutually exclusive, complementary and independent events.</p> <p>Conditional probability.</p> <p>Normal distribution, Diagrammatic representation, Inverse normal probabilities.</p> <ul style="list-style-type: none"> <li>• Concept of correlation, scatter diagram, line of best fit, regression.</li> <li>• The chi square test of independence, null and alternative hypotheses, significance level and degrees of freedom.</li> </ul> <p>Gradient of parallel and perpendicular lines, equation of line.</p> <ul style="list-style-type: none"> <li>•</li> </ul>	<p>rule and</p> <ul style="list-style-type: none"> <li>• Area of triangle.</li> <li>• Area and volume of cuboid, pyramid, cone, cylinder and sphere.</li> <li>• The distance between two points and midpoint coordinates.</li> </ul> <p>Concept of function, domain and range.</p> <ul style="list-style-type: none"> <li>• Linear and</li> <li>• quadratic models, features of quadratic function.</li> <li>• Exponential model and asymptote.</li> <li>• Solving equations involving various functions.</li> <li>•</li> </ul>	<p>Maxima and minima</p>
<b>Visual Arts</b>	<p><b>Formal analysis-</b> Elements of art, Principles of design</p> <p><b>Exploration of the development of art-making skills and techniques</b></p> <p><b>Experiments with media</b> and technologies and personal reflections</p> <p>Investigation of own art development in the context of related</p>	<p><b>Comparative analysis</b> of the works of artists from a period of art history or art movement.</p> <p>Introduction to the use of the visual arts journal as a record of individual inquiry and investigation, with particular emphasis on how to</p>	<p><b>Introduction of 3D Three-dimensional forms</b></p> <p>Clay modelling: such as hand built forms, thrown vessels, mould-made objects</p> <p>Constructed sculpture: such as assemblage, paper, glass etc.</p> <p>Designed objects: such as models, interior design, jewellery</p>	<p>Introduction of Lens-based, electronic and screen-based forms - photography,</p> <p>Presentation of resolved works for exhibition with explanation.</p> <p>Curatorial practices- through visits to galleries and artists' studios, reviewing catalogues for</p>



	<p>art genres Detailed evaluations and critical analysis <b>Art-making forms</b> - experiences in media and techniques (including two-dimensional forms, three-dimensional forms and lens-based, electronic and screen-based forms) with particular reference to the historical development of processes and techniques and different cultural and traditional uses of these</p> <p><b>Two-dimensional forms</b> Drawing: such as charcoal, pencil, ink, collage Painting: such as acrylic, oil, watercolour, murals</p>	<p>appropriately cite sources <b>Art history</b>—an overview of developments and movements from earliest times to the present day Introduction to a range of models for analysing, critiquing, interpreting and deconstructing artworks, offering opportunities for students to engage with these and become familiar with them</p> <p><b>Art criticism</b> or responding to art with reference to various cultural contexts, differing art forms and artists learning specialist art vocabulary and terms through the use of a glossary.</p> <p><b>Technical instruction</b> and demonstrations in the use of particular media (such as oil painting, ink drawing, clay modeling, digital techniques and so on) with reference to particular artists Investigation of</p>	<p>Site specific/ephemera I: such as land art, installation <b>Familiarization with various art genres, styles, regional schools and associations</b> <b>Art criticism or responding to art</b></p> <ul style="list-style-type: none"> <li>• investigating the historical and technological changes and developments of particular media and techniques</li> <li>• associated relevant class theory lessons (such as colour theory, history of pigments and so on).</li> </ul> <p><b>Communicating through visual and written means.</b> Producing a body of artwork through a process of reflection and evaluation, showing a synthesis of skill, media and concept.</p>	<p>local exhibitions, presentations by visiting artists and exploration of alternative display spaces The study of artist statements and accepted conventions for titling and annotating exhibited works Exhibition of students' own work supported by appropriate artist statements, with attention to display and labelling Individual drafting and redrafting of artist statements of intention Studio work, in the light of student's own developing artist statements Presentation techniques which include refining personal statements, matting, mounts, layout and producing exhibition text. <b>Art criticism</b> or responding to art via various models Individual presentations Exhibition text - compilation of written material students identify, contextualize and justify their selections for exhibition.</p>
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		the historical and technological changes and developments of particular media and techniques Class theory lessons (such as colour theory, history of pigments and so on)		
<b>Theory of Knowledge</b>	Introduction to TOK Nature of Knowledge Problems with Knowledge Structure of knowledge frameworks. Overview of all WOKs & AOKs Sense Perception Reason Emotion Language Knowledge questions IKS/ RKS as AOK , History as AOK,	The Arts, Mathematics Ethics as an AOK First TOK presentation	2nd TOK presentation, Natural sciences, Human Sciences as AOK	TOK essay