



# Choithram International

An IB World School

....because every child deserves the best



## Curriculum Planner DP 2018-20

Subject	Sem I	Sem II	Sem III	Sem IV
English	Part 1 : Language in Cultural Context: Gender Communities Translation 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: Translation Part 4 : Critical Study : SL: Poems by John Keats HL: Poems by John Keats Part 2 : Mass Communication: Textual Bias Use of Persuasive Language Stereotypes	Part 3 : Texts and Contexts : SL- The Great Gatsby Red Oleanders HL- The Great Gatsby Red Oleanders Americanah	Part 3 : Texts and Contexts : SL- The Great Gatsby Red Oleanders HL- The Great Gatsby Red Oleanders Americanah  Revision
Hindi	Part 4: Options-कबीर दोहे और साखियाँ लघुकथाएँ- खलील जिब्रान ठेले पर हिमालय (यात्रा संस्मरण ) धर्मवीर भारती	Part 2: Detailed study चंद्रगुप्त ( नाटक) जयशंकर प्रसाद अहिल्याबाई (उपन्यास) वृंदावन लाल वर्मा नागार्जुन (कविता) (HL Only)	Part 1 work in translation- रोमियो- जूलियट शेक्सपीयर (नाटक) अंतेन चेखव की लघु कथाएँ टैगोर का कविता संग्रह (गीतांजली) (HL Only)	"Part 3: Literary genres- आपका बंटी (उपन्यास) मन्नु भंडारी सुखदा (उपन्यास) जैनेन्द्र जैन सारा आकाश (उपन्यास) राजेन्द्र यादव गबन (उपन्यास) प्रेमचंद (HL Only)"
French ab initio	<b>Identities:</b> • Personal attributes • Personal relationships • Eating and drinking • Physical wellbeing  <b>Experiences</b> • Daily routine • Leisure • Holidays	<b>Human ingenuity</b> • Transport • Entertainment • Media • Technology	<b>Social organization</b> • Neighbourhood • Education • The workplace • Social issues	<b>Sharing the planet</b> • Climate • Physical geography • The environment • Global issues

	<ul style="list-style-type: none"> <li>• Festivals and celebrations</li> </ul>			
French B SL/HL	<p><b>Identities:</b></p> <ul style="list-style-type: none"> <li>• Lifestyles</li> <li>• Health and well-being</li> <li>• Beliefs and values</li> <li>• Subcultures</li> <li>• Language and identity</li> </ul> <p><b>Experiences:</b></p> <ul style="list-style-type: none"> <li>• Leisure activities</li> <li>• Holidays and travel</li> <li>• Life stories</li> </ul>	<p><b>Experiences (contd):</b></p> <ul style="list-style-type: none"> <li>• Rites of passage</li> <li>• Customs and traditions</li> <li>• Migration</li> </ul> <p><b>Human ingenuity:</b></p> <ul style="list-style-type: none"> <li>• Entertainment</li> <li>• Artistic expressions</li> <li>• Communication and media</li> <li>• Technology</li> <li>• Scientific innovation</li> </ul>	<p><b>Social organization:</b></p> <ul style="list-style-type: none"> <li>• Social relationships</li> <li>• Community</li> <li>• Social engagement</li> <li>• Education</li> <li>• The working world</li> <li>• Law and order</li> </ul>	<p><b>Sharing the planet:</b></p> <ul style="list-style-type: none"> <li>• The environment</li> <li>• Human rights</li> <li>• Peace and conflict</li> <li>• Equality</li> <li>• Globalization</li> <li>• Ethics</li> <li>• Urban and rural environment</li> </ul>
Business Management	<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). 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>	<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>
Economics	<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-6:Market structures</p> <p>Chapter-7;Level of overall economic activity</p> <p>Chapter-8:Aggregate demand and</p>	<p>Chapter-11:International trade protectionism</p> <p>Chapter 12:Exchange rate and Balance Of payments</p> <p>Chapter 13:Terms</p>	<p>Chapter-14:Understanding Economic development</p> <p>Chapter 15:Role of domestic and international factors and trade</p>

	Chapter-5:Theory of Firm	supply Chapter-9:Macroeconomic objectives Chapter-10:Demand and supply side policies	of trade and Economics Integration	strategies Chapter 16:Foreign sources of finance and foreign debt Chapter 17:Consequences of economic growth Chapter 18;Balance between market and intervention
History	<p>Prescribed Subject 3: The Move to Global War</p> <p>Case study 1: Japanese expansion in East Asia (1931–1941)</p> <p>Causes of expansion</p> <ul style="list-style-type: none"> <li>• The impact of Japanese nationalism and militarism on foreign policy</li> <li>• Japanese domestic issues: political and economic issues, and their impact on foreign relations</li> <li>• Political instability in China</li> </ul> <p>Events</p> <ul style="list-style-type: none"> <li>• Japanese invasion of Manchuria and northern China (1931)</li> <li>• Sino-Japanese War (1937–1941)</li> <li>• The Three Power/Tripartite Pact; the outbreak of war; Pearl Harbor (1941)</li> </ul> <p>Responses</p> <ul style="list-style-type: none"> <li>• League of Nations and the Lytton report</li> <li>• Political developments within China—the Second United Front</li> </ul>	<p>Word History Topic 10: Authoritarian States (20th Century)</p> <p>Emergence of authoritarian states</p> <ul style="list-style-type: none"> <li>• Conditions in which authoritarian states emerged: economic factors; social division; impact of war; weakness of political system</li> <li>• Methods used to establish authoritarian states: persuasion and coercion; the role of leaders; ideology; the use of force; propaganda</li> </ul> <p>Consolidation and maintenance of power</p> <ul style="list-style-type: none"> <li>• Use of legal methods; use of force; charismatic leadership; dissemination of propaganda</li> <li>• Nature, extent and treatment of opposition</li> <li>• The impact of the success and/or failure of</li> </ul>	<p>Prescribed content</p> <p>Rivalry, mistrust and accord</p> <p>The breakdown of the Grand Alliance and the emergence of superpower rivalry in Europe and Asia (1943–1949): role of ideology; fear and aggression; economic interests; a comparison of the roles of the US and the USSR</p> <p>The US, USSR and China—superpower relations (1947–1979): containment; peaceful co-existence; Sino-Soviet and Sino-US relations; detente</p> <p>Confrontation and reconciliation; reasons for the end of the Cold War (1980-1991): ideological challenges and dissent; economic problems; arms race</p> <p>Leaders and nations</p> <p>The impact of two leaders, each chosen from a different region, on the course and development of the</p>	<p>Case study 2: German and Italian expansion (1933–1940) Causes of expansion</p> <ul style="list-style-type: none"> <li>• Impact of fascism and Nazism on the foreign policies of Italy and Germany</li> <li>• Impact of domestic economic issues on the foreign policies of Italy and Germany</li> <li>• Changing diplomatic alignments in Europe; the end of collective security; appeasement</li> </ul> <p>Events</p> <ul style="list-style-type: none"> <li>• German challenges to the post-war settlements (1933–1938)</li> <li>• Italian expansion: Abyssinia (1935–1936); Albania; entry into the Second World War</li> <li>• German expansion (1938–1939); Pact of Steel, Nazi–Soviet Pact and the outbreak of war</li> </ul> <p>Responses</p> <ul style="list-style-type: none"> <li>• International</li> </ul>

	<ul style="list-style-type: none"> <li>• International response, including US initiatives and increasing tensions between the US and Japan</li> </ul>	<p>foreign policy on the maintenance of power</p> <p>Aims and results of policies</p> <ul style="list-style-type: none"> <li>• Aims and impact of domestic economic, political, cultural and social policies</li> <li>• The impact of policies on women and minorities</li> <li>• Authoritarian control and the extent to which it was achieved</li> </ul> <p>Examples of Countries and Leaders</p> <ul style="list-style-type: none"> <li>• Europe- Germany- Hitler</li> <li>• Asia and Oceania-China- Mao</li> </ul>	<p>Cold War</p> <p>The economic, social and cultural impact of the Cold War on two countries, each chosen from a different region</p> <p>Cold War Crises</p> <p>Cold War crises case studies: detailed study of any two Cold War crises from different regions: examination and comparison of the causes, impact and significance of the two crises</p> <p>Example of Leaders: Truman and Stalin</p> <p>Example of crisis: The Americas: Cuban Missile Crisis 1962</p> <p>Europe: Berlin Wall 1958-1961</p>	<p>response to German aggression (1933–1938)</p> <ul style="list-style-type: none"> <li>• International response to Italian aggression (1935–1936)</li> <li>• International response to German and Italian aggression (1940)</li> </ul>
Psychology	<p><b>Unit 1</b> Introduction, Research in psychology, <b>Unit 2</b> Biological level of analysis <b>Unit 3</b> Cognitive level of analysis <b>Unit 4</b> Sociocultural level of analysis</p>	<p><b>Option 1 Unit 5-</b> Abnormal psychology- concepts of normality, psychological disorders, implementing treatment, simple experimental study</p>	<p><b>Option 2 Unit 6</b> Human relationships- social responsibility, interpersonal relationships, violence, simple experimental study</p>	<p><b>Unit 7</b> Qualitative research- theory and practice, observations, case studies, writing paper 3 questions, writing papers in psychology</p>
Information Technology in Global Society	<p>Unit1: Overview of ITGS and 3 Strands Unit2: Hardware, Software, Networks Unit 5: Health, Education and Training</p>	<p>Unit 3: Databases and Spreadsheets, Introduction to project management Unit 4: Robotics, artificial intelligence and expert systems Unit 6: Business and Employment</p>	<p>Unit 7: Modelling and simulation, Personal and public communications Unit 8: IT systems in organizations Unit 9: Internet Multimedia/digital media</p>	<p>Unit10: Environment, Politics and Government Unit 11: Home and leisure</p>

Physics	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)	Unit 7: Energy Production
Chemistry	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
Biology	Topic 1: Cell biology Topic 2: Molecular biology Topic 7: Nucleic acids and Topic 8: Metabolism, cell respiration and photosynthesis	<u>Units &amp; Option-</u> 8: Metabolism, cell respiration and photosynthesis 3: Genetics 10: Genetics and evolution 4: Ecology 6.1 Digestion and absorption D1,2,3 Human nutrition, Digestion & liver 6.2 Blood System D.4 Heart	Units & Option-6,11 & Option D: Human physiology 6.4 Gas exchange D.6 Transport of respiratory gases 6.5 Neurons and synapses 6.6 Hormones, homeostasis and reproduction D.5 Hormones and metabolism 11.2 Movement 6.3 Defence against infectious disease 11.1 Antibody production and vaccination	Units & Option-11.3 The kidney and osmoregulation 11.4 Sexual reproduction 9: Plant biology 9.1 Transport in the xylem of plants 9.2 Transport in the phloem of plants 9.3 Growth in plants 9.4 Reproduction in plants 5: Evolution and biodiversity 5.1 Evidence for evolution 5.2 Natural selection 5.3 Classification of biodiversity 5.4 Cladistics
Computer Science	Unit1 : Computer Organization  Unit2 : Computational thinking, problem-solving and programming	Unit3 : System Fundamentals  Unit4 Abstract data structures  Unit 5 : Options - Part One  Database Modelling and Simulation Web Science	Unit 5 : Options - Part Two  Database Modelling and Simulation Web Science Object Oriented Programming  Unit 6: Networks  Network fundamentals Data transmission	Unit 7 :  Resource Management  System resources Role of the operating system  Unit 8:  Control  Centralized control systems

		Object Oriented Programming	Wireless networking	Distributed systems
Environmental Systems and Societies	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
Mathematics HL	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 derivative, Kinematics.	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. Statistics and Probability: Frequency Distribution, Probability, Discrete Random Variable, Continuous random variable, Binomial Distribution, Poisson Distribution, Normal Distribution. 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.	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.
Mathematics SL	Unit 1 - Algebra : Sequences and series, Binomial Theorem, Logarithm and Exponential Unit 2 - Function :	Unit 3-Circular Functions and Trigonometry : Radian Measure, Non right angled trigonometry,	Integral Calculus: Meaning of Antiderivative, Integration of algebraic, exponential,	Concepts of trial, outcome, equally likely outcomes, sample space (U) and event. Combined

	<p>Quadratics, theory of functions, transformation of functions,</p>	<p>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,</p>	<p>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.</p>	<p>events, Concept of discrete random variables and their probability distributions. Binomial distribution. Normal distributions and curves.</p>
<p>Mathematics Studies SL</p>	<p>Unit 1: • Number .Approximations and Significant figures, Percentage errors • Conversion of units and currency. • nth term of AP and GP and their sums. • Financial applications of GP and compound interest. • Simultaneous linear equations and quadratic equations.</p> <p>Unit 2: • Frequency histograms, • stem and leaf diagram, • box and whisker plot. • Measure of central tendencies and dispersion. 2 variable statistics</p>	<p>Unit 3: • Concept of symbolic logic, propositions, compound statements, Truth tables. • Set theory, operations on sets, Venn diagram and simple applications. Probability of an event, mutually exclusive, complementary and independent events. Conditional probability.</p> <p>Unit 4: • Gradient of parallel and perpendicular lines, equation of line. • Trigonometric ratios of right triangle.</p>	<p>Unit 5: • Normal distribution, Diagrammatic representation, Inverse normal probabilities. • Concept of correlation, scatter diagram, line of best fit, regression. • The chi square test of independence, null and alternative hypotheses, significance level and degrees of freedom.</p> <p>Unit 6 • Concept of function, domain and range. • Linear and • quadratic models, features of quadratic function. • Exponential model and asymptote. • Solving equations</p>	<p>Unit 7: • Derivative of algebraic, • Gradient of a function • Tangent and Normal • Velocity and Acceleration • Maxima and minima</p>

		<ul style="list-style-type: none"> <li>• Angle of elevation and depression.</li> <li>• Sine rule, Cosine rule and</li> <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>	involving various functions.	
Visual Arts	<p><b>Formal analysis-</b> Elements of art, Principles of design  <b>Exploration of the development of art-making skills and techniques</b>  <b>Experiments with media</b> and technologies and personal reflections  Investigation of own art development in the context of related 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><b>Comparative analysis</b> of the works of artists from a period of art history or art movement.  Introduction to the use of the visual arts journal as a record of individual inquiry and investigation, with particular emphasis on how to 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</p>	<p><b>Introduction of 3D Three-dimensional forms</b>  Clay modelling: such as hand built forms, thrown vessels, mould-made objects  Constructed sculpture: such as assemblage, paper, glass etc.  Designed objects: such as models, interior design, jewellery  Site specific/ephemeral: 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</li> </ul>	<p><b>Introduction of Lens-based, electronic and screen-based forms</b> - photography,</p> <p>Presentation of resolved works for exhibition with explanation</p> <p><b>Curatorial practices-</b> through visits to galleries and artists' studios, reviewing catalogues for 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  <b>Exhibition of students' own works</b> supported by appropriate artist statements, with attention to display and labelling  Individual drafting and redrafting of artist statements of intention  <b>Studio work</b>, in</p>



		<p>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</p> <p>Investigation of the historical and technological changes and developments of particular media and techniques</p> <p>Class theory lessons (such as colour theory, history of pigments and so on)</p>	<p>on).</p> <p><b>Communicating through visual and written means.</b></p> <p>Producing a body of artwork through a process of reflection and evaluation, showing a synthesis of skill, media and concept.</p>	<p>the light of student's own developing artist statements</p> <p>Presentation techniques which include refining personal statements, matting, mounts, layout and producing exhibition text.</p> <p><b>Art criticism</b> or responding to art via various models</p> <p>Individual presentations</p> <p><b>Exhibition text</b> - compilation of written material</p> <p>students identify, contextualize and justify their selections for exhibition.</p>
<p>Theory of Knowledge</p>	<p>Introduction to TOK</p> <p>Nature of Knowledge</p> <p>Problems with Knowledge</p> <p>Structure of knowledge frameworks.</p> <p>Overview of all WOKs &amp; AOKs</p> <p>Sense Perception</p> <p>Reason</p> <p>Emotion</p> <p>Language</p> <p>Knowledge questions</p> <p>Mathematics as an AOK</p> <p>Natural sciences as AOK</p>	<p>Human sciences, Ethics as AOK ,</p> <p>First TOK presentation</p>	<p>2nd TOK presentation, The Arts, IKS/ RKS, History as AOK</p>	<p>TOK essay</p>