

Subject	Topics for Terms	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Art	1	Formal Art Elements	Surfaces and Textures	Artist Study/ Art Movement	Mystery & Imagination' coursework	IGCSE Coursework	'Apart & Together' Coursework	AS Exam Preparation, A2 Coursework 'Beautiful Decay'
	2	Artist Study	Artist Study	Identity	Mystery & Imagination' coursework	Exam Preparation	'Apart & Together' Coursework	A2 Coursework 'Beautiful Decay'
	3	The World Around Us	Local Environment	Natural Form	Mystery & Imagination' coursework	-	'Apart & Together' Coursework	-
Biology	1, 2 & 3	-	-	-	The Nature and Variety of Living Organisms. Levels of Organisation. Cell Structure. Biological Molecules. Movement of Substances into and out of cells. Nutrition. Respiration. Gas Exchange. Transport. Excretion. Coordination and response. Reproduction in Flowering Plants.	Inheritance. Selective breeding. Genetic Modification (genetic engineering). Cloning. Food Production. Reproduction in Humans. The Organism in the Environment. Feeding Relationships. Cycles within Ecosystems. Human Influences on the Environment.	Cell structure. Biological molecules. Enzymes. Cell membranes and transport. The mitotic cell cycle. Nucleic acids and protein synthesis. Transport in plants. Transport in mammals. Gas exchange and smoking. Infectious disease. Immunity.	Energy and respiration. Photosynthesis. Homeostasis. Control and co-ordination. Inherited change. Selection and evolution. Biodiversity, classification and conservation. Genetic technology.
	BOOKS				BOOKS FOR YEAR 10: Edexcel International GCSE Biology, Bradfield, Potter.	BOOKS FOR YEAR 11: Edexcel International GCSE Biology, Bradfield, Potter.	BOOKS FOR YEAR 12: Cambridge International A/AS Level Biology Revision Guide. Jones & AS and A Level Biology Second Edition. Jones, Fosbery, Taylor and Gregory	BOOKS FOR YEAR 13: Cambridge International A/AS Level Biology Revision Guide. Jones & AS and A Level Biology Second Edition. Jones, Fosbery, Taylor and Gregory

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Physics	1	Energy and Sustainability, Renewable resources.	Heat Transfers, Conduction, Convection, Radiation.	Energy Transfers and Production, Satellites and Space.	Forces and Motion. Forces and Shape. Momentum. Moments. Astronomy. Mains Electricity. Electric Charge.	Density and Pressure. Solids, Liquids and Gases. Magnetism and Electromagnetism. Electric Motors and EM Induction.	Linear Motion and Equations of Motion. Newton's Laws and Forces. Projectiles and Momentum. Work, Energy and Power. Motion in Fluids and Stokes' Law. Solids and their properties. Stress, Strain and Young's Modulus. Uncertainties and Measurements. Exam Practise.	Momentum and Collisions. Circular Motion. Electric and Magnetic Fields. Capacitors. Particle Physics and Accelerators. Kinetic Theory and Thermal Energy.
	2	Electric Circuits.	Forces and Transport.	Motion and Speed. Pressure and Density.	Current and Voltage. Electrical Resistance. Electromagnetic Spectrum. Using Waves. Light and Sound Waves.	Atoms and Radioactivity. Radiation and Half-life. Applications of Radioactivity. Particles. Experimental Skills.	EM Waves and their properties. Applications of Waves. Light and Sound. Astronomy. Ultrasound. DC Electricity. Potential Dividers. Internal Resistance. Conduction. Sensing and Control.	Nuclear Decay. Nuclear Fission and Fusion. Nuclear Power Stations. Simple Harmonic Motion/Oscillations. Astrophysics and Cosmology.
	3	Forces, Solar System.	Light, Sound and Hearing.	Completion and Investigation.	Energy Transfers. Thermal Energy. Work and Power. Energy Resources and Electricity. Generation.	Exam Practise. Experimental skills.	Wave - Particle Duality. Photoelectric Effect. Spectra and Energy Levels. Consolidation, Experimental and Exam practise.	Consolidation and Exam Practise.
	BOOKS				REQUIRED BOOKS FOR Y10: Edexcel International GCSE Physics (Pearson) 2009 Student Book with CD [OPTIONAL BOOK: iGCSE Edexcel Revision Guide Physics with CD, (Pearson)]	REQUIRED BOOKS FOR Y11: Edexcel International GCSE Physics (Pearson) 2009 Student Book with CD [OPTIONAL BOOK: iGCSE Edexcel Revision Guide Biology with CD, (Pearson)]	REQUIRED BOOKS FOR Y12: Edexcel AS Physics (Pearson) Student's Book with CD [OPTIONAL BOOK: Edexcel AS Physics Revision Guide (EDEXCEL A LEVEL SCIENCES)]	REQUIRED BOOKS FOR Y13: Edexcel A2 Physics (Pearson) Student's Book with CD [OPTIONAL BOOK: Edexcel A2 Physics Revision Guide (EDEXCEL A LEVEL SCIENCES)]

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Chemistry	1				<p>Chapter 1: Kinetic Theory and Diffusion.</p> <p>Chapter 2: Atomic Structure. Chapter 3: Bonding and Structure.</p> <p>Chapter 4: Atoms, molecules, elements, compounds, mixtures.</p> <p>Chapter 5: Formulae and equations. Chapter 11 part 1: Methods of Purification - Separation Mixtures</p>	<p>Chapter 22: RAM and Moles. Chapter 23: Calculations from equations. Chapter 15: Introducing reversible reactions. Chapter 16: Chemistry in Industry. Chapter 18 and 19: Introducing organic chemistry, alkanes, alkenes and alcohols.</p>	<p>TEACHER 1 Topic 1 Stoichiometry, moles and equations. Quantitative analysis.</p> <p>Topic 5: Thermochemistry – heat changes in chemical reactions</p> <p>Laboratory skills; performing titrations, making standard solutions, following instructions, making precise measurements</p> <p>TEACHER 2 Topic 2 Atomic Structure and electron arrangement</p> <p>Topic 3 : Bonding</p> <p>Topic 4: The states of matter.</p>	<p>TEACHER 1 Organic Chemistry of Aromatic compounds. Carboxylic Acids and acyl compounds. Polymers, organic nitrogen compounds and amino acids.</p> <p>TEACHER 2 Revision and Practice for the AS examination in November. Electrochemistry- cells and electrolysis.</p>
	2				<p>Chapter 6: Rates of Reaction. Chapter 7: Oxygen and Oxides.</p> <p>Chapter 8: The Reactivity Series.</p> <p>Chapter 9: Acids 4a.</p> <p>Chapter 10: Making Salts.</p>	<p>Chapter 20: Useful Products from oil.</p> <p>Chapter 21: Polymers.</p> <p>Chapter 14: Energetics.</p> <p>Chapter 13: Electrolysis and Chapter 24: Electrolysis calculations.</p>	<p>TEACHER 1 Topic 6: Electrochemistry.</p> <p>Topic 7: Equilibria.</p> <p>Topic 8: Reaction Kinetics.</p> <p>Topic 9: The periodic table and periodicity.</p> <p>Topic 10: Group 2 Elements.</p> <p>TEACHER 2 Topic 10: Formulae and structure of organic compounds. Isomerism, alkanes, alkenes, polymerization and halogenoalkanes.</p>	<p>TEACHER 1 Analytical chemistry. Chromatography and electrophoresis. Mass spectrometry, nmr. infra-red spectrometry. Organic synthesis part 2. TEACHER 2 Ionic Equilibria – the theory of acids, bases and buffers. Solubility product. Reaction Kinetics.</p>

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Chemistry	3				Chapter 11 part 2: Hydrogen and Water. Chapter 11 part 3: Testing for Ions and Gases - Practical Work. Chapter 12: The Periodic Table. Chapter 22: The Mole and Relative Atomic Mass.	Chapter 11: Separating and analysing. Revision and practice.	TEACHER 1 Topic 11: Group 7 or 17 Elements. Topic 12: Introduction to Transition Elements. Topic 22: Analytical techniques. Commence teaching A2 Material. Transition elements. Lattice Enthalpy and the Born Harber cycle. Enthalpy of hydration and solubility. TEACHER 2 Organic Chemistry 2. Preparation and reactions of alcohols, aldehydes, ketones, carboxylic acids and esters. Organic synthesis.	TEACHERS 1 & 2 Revision and Practise.
	BOOKS				REQUIRED BOOKS FOR Y10: Student Book Edexcel International IGCSE Chemistry – Jim Clark	REQUIRED BOOKS FOR Y11: Student Book Edexcel International IGCSE Chemistry – Jim Clark	REQUIRED BOOKS FOR Y12: Cambridge International AS and A Level Chemistry Coursebook, second Edition by Lawrie Ryan and Roger Norris	REQUIRED BOOKS FOR Y13: Cambridge International AS and A Level Chemistry Coursebook, second Edition by Lawrie Ryan and Roger Norris
General Science	1							
	2							
	3							
	BOOKS	REQUIRED BOOKS FOR Y7: Exploring Science: How Science Works Year 7 (Pearson)	REQUIRED BOOKS FOR Y8: Exploring Science: How Science Works Year 8 (Pearson)	REQUIRED BOOKS FOR Y9: Exploring Science: How Science Works Year 9 (Pearson)	-	-	-	-

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Economics AS and A level	1	-	-	-	-	-	Basic economic ideas and resource allocation (AS level). The price system and the microeconomy (AS level). The macroeconomy (AS level).	Basic economic ideas and resource allocation (A level). The price system and the microeconomy (A level). The macroeconomy (A level).
	2	-	-	-	-	-	Government microeconomic intervention (AS level).	Government microeconomic intervention (A level).
	3	-	-	-	-	-	Government macroeconomic intervention (AS level)	Government macroeconomic intervention (AS level)
	BOOKS	-	-	-	-	-	REQUIRED BOOK FOR Y12 Cambridge International AS and A level Economics Coursebook (third edition) written by Bamford and Grant and published by Cambridge University Press	REQUIRED BOOK FOR Y13: Cambridge International AS and A level Economic Coursebook (third edition) written by Bamford and Grant and published by Cambridge University Press

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Business Studies AS and A level	1	-	-	-	-	-	Business and the Environment (AS Level) - Students learn about enterprises, business structure, size of business, business objectives and stakeholders. People in organisations (AS Level) - Students learn about management and leadership, motivation and human resources. Marketing (AS Level) - Students learn about market research.	Business and the environment (A level) - students build upon their understanding of business structure and size of business and learn about external influences on business activity People in organisations (A level) - students learn about human resource management, organisational structure and business communication Marketing (A level) - students learn about marketing planning
	2	-	-	-	-	-	Marketing (AS Level) continued - Students learn about the marketing mix. Operations and project management (AS Level) - Students learn about the nature of operations, operations planning and inventory management. Finance and Accounting (AS Level) - Students learn about the need for business finance, sources of finance.	Marketing (A level) continued - students learn about globalisation and international marketing Operations and project management (A level) - build upon their understanding of operations planning and learn about capacity utilisation, lean production and quality and project management
	3	-	-	-	-	-	Finance and Accounting (AS Level) continued - Students learn about costs, accounting fundamentals, forecasting cash flow and managing workplace capital.	Finance and accounting (A level) - students build on their understanding of costs and learn about budgets, contents and analysis of published accounts and investment appraisal Strategic management (A level) - students learn about strategic analysis, strategic choice and strategic implementation

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Business Studies AS and A level	BOOKS	-	-	-	-	-	REQUIRED BOOK FOR Y12: Cambridge International AS and A level Business Studies coursebook published by Cambridge University Press	REQUIRED BOOK FOR Y13: Cambridge International AS and A level Business Studies coursebook published by Cambridge University Press

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Business Studies and Economics GCSE	1	-	-	-	<p>Spotting a Business Opportunity - students learn about customer needs, market mapping, competition, added value and franchising.</p> <p>Showing enterprise - students learn about creative thinking, invention and innovation, taking a calculated risk and enterprise skills.</p>	<p>How can I start to think like an economist? Students learn about trade-offs, the effect of price changes, stakeholder perspectives.</p> <p>Risk or uncertainty - students learn about measuring success, causes of business failure, economic challenges, exchange rates and the role of government in solving economic and social problems.</p>	-	-
	2	-	-	-	<p>Putting a business idea into practice - students learn about the possible objectives of start-ups, the qualities shown by entrepreneurs, forecasting cash flows, business plans and obtaining finance.</p> <p>Making the start-up effective - students learn about marketing mix, limited liability, legal and tax issues, staff recruitment and motivation.</p>	<p>Big or Small? Students learn about how and businesses grow, monopoly power and regulation of big business. Is growth good? Students learn about the nature of economic growth and its effect of growth on living standards, as well as about sustainable growth.</p>	-	-
	3	-	-	-	<p>The Economic context - Students learn about demand and supply, the impact of interest rates, exchange rates and the business cycle. Students are also introduced to business decision taking processes and the role of stakeholders.</p> <p>Investigating small business - This part of the course is research based and internally assessed.</p>	<p>Is the world fair? Students learn about the nature of wealth distribution, the effect of international trade on wealth distribution and other approaches to reducing inequality.</p>	-	-

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Business Studies and Economics GCSE	BOOKS	-	-	-	REQUIRED BOOK FOR Y10 : Business: Introduction to Small Business, by Anderton and Gunn and Business: Introduction to Economic Understanding, written by Hirst and Shields (Pearson).	REQUIRED BOOK FOR Y11 :Business: Introduction to Small Business, by Anderton and Gunn and Business: Introduction to Economic Understanding, written by Hirst and Shields (Pearson).	-	-

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Music	1, 2 & 3	<p>'Introduction to Music. Intro to western orchestral instruments. Classical Composers I – Introduction. Clefs, Note Reading. Note values. Regular Time signature, bar-lines. Key signature (2 sharps and flats). Scales writing (major). Prokofiev (Peter and the Wolf). Musical I (The Sound of Music). Silence (John Cage) Activities. Percussion Instruments with animation, 'Skeleton Symphony'. Orchestra Instruments Making. Programmatic music via Disney (Fantasia- Sorcerer's Apprentice). Programmatic music via (Fantasia-Rhapsody in Blue). Programmatic music via (Fantasia-Firebird Suite). Young Person's Guides to the Orchestra by Benjamin Britten.</p>	<p>Beethoven Symphony no. 6, 2nd, 3rd, and 4th movts (Listening and Discussion). Saint-Saens Carnival of the Animals (Listening and Discussion). Chinese Music. Gamelan Music. Japanese Music. Opera and Oratorio. Musical II (Phantom of the Opera). Art Songs. Jazz and Blues scale. Beethoven via movie (Beethoven Lives Upstairs). Beethoven Symphony no. 5, 1st and 4th movts (Listening and Discussion). Classical Composers II – Nationalism. Pop Music – Introduction. Tango Music. Latin Music. Anime Music.</p>	<p>Classical Composers III – Research. National Anthem. Ballet. Pop Ballad. 20th century and Experimental Music. Keyboard Instruments (organ, harpsichord, piano). Musical III (Sweeney Todd). Waltz. Intervals. March. The Beatles. Indian Music. Arab and African Music. Church Music. Film Music and Soundtracks.</p>	<p>Musical Elements – Descriptive Writing. Keys. Tempos. Intervals. Musical Form. Musical Genre. Compositional Devices. Ornaments. Cadences. Baroque Music. Classical Music. Romantic Music. 20th Century Music. Transposition. Dictation exercise (ongoing). Musical Textures. Articulations. Orchestra Instruments. Composition (ongoing). Performing (ongoing). Concert Report/ Writing task (ongoing). Listening Exercise (ongoing).</p>	<p>Chinese Music. Gamelan Music. Japanese Music. Music from Latin America. Arab Music. African Music. Indian Music. Two Prescribed Works from two different composers (varied according to the IGCSE Music syllabus each year). Composition (ongoing). Performing (ongoing). Concert Report/ Writing task (ongoing). Listening Exercise (ongoing). Dictation Exercise (ongoing).</p>	<p>Introduction to Music Essay Writing. Prescribed Work Analysis and Study (Section A). First Viennese School – Haydn, Mozart, Beethoven, Schubert). Beethoven's Life (BBC Documentary). Mozart's Life (Amadeus). Tchikovsky's Life (BBC Documentary). Haydn's Life (BBC Documentary). All other classical composers important composition in Western Music History. Music Essay Exercise (ongoing). Composition (ongoing). Performing (ongoing). Concert Report/ Writing task (ongoing). Listening Task (ongoing).</p>	<p>Evolution of Ballet Industry. Pop Culture. Rossini's Composition Techniques. Requiem and Mass. Differences between male and female soloist (Discussion). Prescribed Work Analysis and Study (Section B). Coursework Discussion and Preparation (Component 2, 3, 4, and 5). Performing (ongoing). Composition Ongoing. Concert Report/ Writing task (ongoing). Listening Task (ongoing).</p>
	BOOKS				<p>REQUIRED BOOKS FOR Y10 & Y11 : 1. GCSE Music (Includes Audio CD), Complete Revision & Practice. 2. GCSE Music Workbook Music Worldwide by Elizabeth Sharma. 3. Investigating Musical Styles.</p>	<p>REQUIRED BOOKS FOR Y12 & Y13: Music in Western Civilization (Volume B and C) by Craig Wright and Bryan Simms</p>		

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English	1	Refugee Boy Benjamin Zephaniah	The Boy in the Striped Pyjamas John Boyne	Animal Farm by George Orwell. English survival skills – improving vocabulary structural and organisational choices whilst focusing on accurate use of written features.	<ul style="list-style-type: none"> • Prose study (English Literature) Spies by Michael Frayn • Poetry study (English Literature) A collection of 15 poems. • Directed Writing and Composition (English as a First Language) Descriptive writing. • Reading for meaning and summary skills. Descriptive writing. • Cambridge IGCSE English as a Second Language – Student Book (with CD) 	<p>The Merchant of Venice by William Shakespeare Narrative Writing. Revision of skills required in Paper 3 – Directed Writing and Composition.</p> <p>Narrative Writing. Revision of skills required in Paper 3 – Directed Writing and Composition.</p> <p>Cambridge IGCSE English as a Second Language – Student Book (with CD)</p>	<p>Poetry – Ted Hughes</p> <p>The House of Mirth Edith Wharton</p>	<p>Emma by Jane Austen</p> <p>The Death of a Salesman by Arthur Miller</p> <p>As revision – 1. Poetry and Prose 2. Drama</p>
	2	Introduction to Shakespeare – extracts from A Midsummer Night's dream and Romeo and Juliet	Macbeth - William Shakespeare	'The Crucible by Arthur Miller. A range of fiction and non-fiction texts will be used as a springboard for reading and comprehension skills – including The All American Slurp by Lensey Namioka	<ul style="list-style-type: none"> • Prose study (English Literature) Spies by Michael Frayn • Poetry study (English Literature) A collection of 15 poems. • Directed Writing and Composition (English as a First Language) • Directed writing. Directed writing – writing in different styles and for different purposes and audiences. • Cambridge IGCSE English as a Second Language – Student Book (with CD) 	<p>Revision of skills required in Paper 2 – Reading Passages (Extended)</p> <p>Revision of Spies by Michael Frayn and Poetry (14 poem)</p> <p>Revision of skills required in Paper 2 – Reading Passages (Extended) Cambridge IGCSE English as a Second Language – Student Book (with CD)</p>	<p>Antony and Cleopatra by William Shakespeare</p> <p>TBC: Ama Ata Aidoo The Dilemma of a Ghost and Anowa OR Alan Ayckbourn Absurd Person Singular</p>	<p>Othello by William Shakespeare</p> <p>Americanah by Chimamanda Ngozi Adichie</p>

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English	3	An introduction to Poetry – a collection of poems from different eras.	Poetry – a collection of poems written by poets from different cultures and traditions. Students will have many opportunities to write their own poetry.	Poetry – a collection of poems linked by theme. Preparing for IGCSE English as a Second Language. Includes reading, writing, speaking and listening.	<ul style="list-style-type: none"> • Drama study (English Literature) The Merchant of Venice by William Shakespeare • Reading Passages (Extended) (English as a First Language. Writers' effects and summary. • Analysis of writers' language choices and exploration of the effects. Narrative writing. • Cambridge IGCSE English as a Second Language – Student Book (with CD) 	<p>English as a First Language: Revision of Paper 2 and 3 using past papers to measure progress.</p> <p>English Literature: Revision of all texts using past paper questions to measure progress.</p> <p>Revision of Paper 2 and 3 using past papers to measure progress. Cambridge IGCSE English as a Second Language – Student Book (with CD)</p>	Revision of all texts.	Revision.
	BOOKS	REQUIRED BOOKS FOR Y7: Refugee Boy Benjamin Zephaniah	REQUIRED BOOKS FOR Y8: The Boy in the Striped Pyjamas John Boyne & Macbeth by William Shakespeare.	REQUIRED BOOKS FOR Y9: Animal Farm by George Orwell & The Crucible by Arthur Miller & The All American Slurp by Lensey Namioka.	REQUIRED BOOKS FOR Y10: Spies by Michael Frayn, The Merchant of Venice by William Shakespeare & Cambridge IGCSE English as a Second Language - Student Book with CD.	REQUIRED BOOKS FOR Y11: The Merchant of Venice by William Shakespeare & Cambridge IGCSE English as a Second Language - Student Book with CD.	REQUIRED BOOKS FOR Y12: The House of Mirth by Edith Wharton & Antony and Cleopatra by William Shakespeare.	REQUIRED BOOKS FOR Y13: Emma by Jane Austen, The Death of a Salesman by Arthur Miller, Othello by William Shakespeare & Americanah by Chimamanda Ngozi Adichie.

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Geography	1	It's Your Planet: formation of the earth and Geological timescale Mapping Skills: Scale, distance, grid references	Population & Urbanisation: Why populations grow and how cities develop	Development: Indicators of development, country studies of Malawi and Singapore, inequality and ways to reduce poverty	Edexcel IGCSE: River Environments: landform and process, hydrological cycle, water as a resource	Economic Activity and Energy: Employment sectors, change over time, informal employment, quaternary and tertiary activities, industrial location and energy demands	Physical Core Hydrology and fluvial geomorphology and Atmosphere and weather Human Core Population and Migration	Physical: Hazardous environments Human: Global interdependence
	2	Glaciers: Formation and landforms	Coasts: Waves, processes and landforms. Coastal defence strategies	From rock to soil: rock type, the rock cycle and soil Living off the earth's resources: water use and conservation, energy and renewables	Urban Environments: Urbanisation, city problems, shanty towns, greenbelts and city poverty Field Trip (TBC)	Globalisation and Migration: global economy, manufacturing shift, TNCs, growth of tourism, impact of tourism and sustainable tourism	Physical Core: Rocks and weathering Human Core Settlement dynamics	Physical: Arid and semi-arid environments Human: Economic transition
	3	Rivers: Landforms and processes Floods: Cause, impact and response	Weather & Climate: Measurement, types of rainfall, clouds and factors affecting climate Global warming: cause (Greenhouse Effect), effect and response	Hazards: Hurricanes, volcanic eruptions, earthquakes and avalanches, prediction, prevention and protection	Hazardous Environments: earthquakes, volcanoes, tropical storms and mitigation	Revision and Exam preparation	Revision and Exam preparation	
	BOOKS	REQUIRED BOOKS : 1. Bishop, V, <i>Landmark Geography: Hazards and Responses</i> , 2001 Collins Educational, ISBN: 978-0007114313 2. Burtenshaw, D, <i>Economy and Development</i> , 2006, Philip Allan Updates, ISBN: 978-1844892020 3. Carr, M, <i>New Patterns: Process and Change in Human Geography</i> (2nd revised edition), 1999 Nelson Thornes, ISBN: 978-0174386810 4. Goudie, A, <i>Nature of the Environment</i> , 2001 Blackwell Publishers, ISBN: 978-0631200697 5. Knapp, B, Ross, S and McCrae, D, <i>The Challenge of the Natural Environment</i> , 1990 Longman, ISBN: 978-0582355972 6. Middleton, N, <i>Desertification</i> , 1991 OUP, ISBN: 978-0199133697 7. Nagle, G and Spencer, K, <i>AS and A level Advanced Geography through Diagrams</i> , 2001 OUP, ISBN 978-0199134328 8. Nagle, G and Spencer, K, <i>Sustainable Development</i> , 1997 Hodder and Stoughton, ISBN: 978-0340679708 9. Prosser, R, Raw, M and Bishop, V, <i>Landmark AS Geography</i> , 2000 Collins Educational, ISBN 978-0003265590 10. Witherick, M (editor), <i>Environment and People: An Integrated Course for A and AS Geography</i> , 1995 Nelson Thornes, ISBN: 978-0748721207						

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Design Technology	1	Chair Project - Basic Design Techniques	Automaton - Mechanisms, Problem Solving, Isometric Drawing	Shower or Bath Soap Holder - Polymers & their properties, Thermo & Thermosetting Plastics & Forming Plastics.	Wooden Box - Carpentry Joints	-	-	-
	2	Perfume Bottles - Design for Clients, Surveys, Prototyping and Advertising & Packaging	House of the Future - Architecture Inspiration, How Buildings Work with the Environment & Communities	Structures - Forces, Presentation Skills, Civil Engineering, Team Working & Dynamics.	Plastic Dragons Den - Designing to Solve a Problem, Present/ Pitch, Professional Manufacturing Processes	-	-	-
	3	Basic Skills - Technical Drawing , Material Knowledge and Safe Working practice.	Key Ring Fob - Design for Clients, Selling Products, Professional Mood Boards Development	Key Ring Fob - Design for Clients, Selling Products, Professional Mood Boards Development	CAD - Autodesk Inventor	-	-	-
	BOOKS	-	-	-	-	-	-	-

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Mathematics	1, 2 & 3	Sequences, Mental Calculations, Area & Perimeter, Volume, Fractions, Averages & Probability, Angle Properties, Simplifying & Solving Equations, Represents Data, Rounding & BODMAS, Plotting Graphs, Constructions, Percentages & Ratios, Transformations, Pie Charts.	Number and Algebra 1 – LCM/HCF and Sequences, Angle Properties, Probability, Fractions and Percentages, Simplifying and Indices, Constructions, Area, Perimeter, Volume, Graphs and Linear Equations, Number and Standard Form, Transformations, Algebra, BODMAS and Decimals, Data Handling.	Fractions and Percentages, Ratio, Sequences, Fractions & Percentages, Solving Equations, Simultaneous Equations, Solving Equations, Triangles, Pythagoras and Trigonometry, Rounding and Estimating, Circles, Surface Area, Volume, Constructions, Drawing Graphs, Probability, Transformations, Indices and Standard Form, Factorising and Quadratics	Types of Numbers. Fractions, Decimals, Percentages. BODMAS. Indices. Finance. Standard Form. Estimation and bounds. Ratio and Proportion. Interpreting Scales. Travel Graphs. Substitution. Plotting Graphs. Linear Graphs. Sequences. Pythagoras and Trigonometry. Algebraic Manipulation. Solving Equations. Simultaneous Equations. Quadratics. Inequalities. Constructions. Loci.	Angles Area, Perimeter, Volume. Circles. Circle Theorems. Vectors. Matrices. Symmetry. Transformations. Statistics. Probability. Sets. Functions.	-	-
	BOOKS	-	-	-	REQUIRED FOR Y10 : Edexcel IGCSE Maths A Student Book 1 and 2 Y10 FURTHER MATHS STUDENTS NEED Edexcel IGCSE Further Pure Maths Student Book]	Y11 FURTHER MATHS STUDENTS NEED Edexcel IGCSE Further Pure Maths Student Book	REQUIRED FOR Y12 : Edexcel AS and A Level Modular Math Core Math 1 Edexcel AS and A Level Modular Math Core Math 2 Edexcel AS and A Level Modular Math Statistics 1 REQUIRED FOR Y12 FURTHER MATHS STUDENTS : Edexcel AS and A Level Modular Further Pure Math 1 Edexcel AS and A Level Modular Further Pure Math 2 Edexcel AS and A Level Modular Math Decision 1	-

Subject	Topics for Terms	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Languages (Malay, French, Mandarin)	1, 2 & 3 (Malay)	<p>BEGINNERS :</p> <ul style="list-style-type: none"> • Greetings • Time and directions • Hobby • School routine • Neighbourhood • Friends and family • Meeting people • Food • Shopping • Public Services <p>ADVANCED:</p> <ul style="list-style-type: none"> • Living in a new town • School life • Sports • Our Living Environment • Travel • Working place • Journey into the past • Life of the physically impaired 	<p>BEGINNERS :</p> <ul style="list-style-type: none"> • Hobby (Extension) • Home • Special occasions • Job • Working place • Entertainment <p>ADVANCED :</p> <ul style="list-style-type: none"> • Healthy living and lifestyle • My idol • Travel • Cultural differences • Living together • Technology • ASEAN countries 	<p>BEGINNERS :</p> <ul style="list-style-type: none"> • Friends and family (Extension) • School routine (Extension) • Our Neighbourhood (Extension) • Culture - Handicraft • Environment – recycling, natural disasters, cleanliness • Technology <p>ADVANCED :</p> <ul style="list-style-type: none"> • Friends and Family • Our Neighbourhood • Culture - Handicrafts • Our environment – recycling, natural Disasters and cleanliness • Sports and hobbies • Malaysian folklore • Poverty • Gratitude 	<ul style="list-style-type: none"> • Charity and the Community • Travel • Our Neighbourhood • Outbreak and Diseases • Traditional Games • Fashion • Our Country • Inventions • Malaysian Folklore • Wonders of the World • My Ambition 	<ul style="list-style-type: none"> • Famous persons and their contributions • My Dream • Folklore from around the world • Cultures from around the world • Healthy Eating • Celebrations • Pollution 	-	-
	BOOKS	<p>Y7 BEGINNERS :</p> <ol style="list-style-type: none"> 1. INTERAKTIF Malay Textbook and Workbook (Book 1) 2. INTERAKTIF Malay Textbook and Workbook (Book 2) <p>Y7 ADVANCED STUDENTS :</p> <ol style="list-style-type: none"> 1. INTERAKTIF Malay Textbook and Workbook (Book 3) 2. Antologi KOMSAS Kasut Kelopak Jantung Tingkatan 1 	<p>Y8 BEGINNERS :</p> <ol style="list-style-type: none"> 1. INTERAKTIF Malay Textbook and Workbook (Book 3) <p>Y8 ADVANCED STUDENTS :</p> <ol style="list-style-type: none"> 1. INTERAKTIF Malay Textbook and Workbook (Book 4) 2. Antologi KOMSAS Kasut Kelopak Jantung Tingkatan 1 	<p>Y9 BEGINNERS :</p> <ol style="list-style-type: none"> 1. JAUHARI Malay Textbook and Workbook (Book 1A) 2. JAUHARI Malay Textbook and Workbook (Book 1B) <p>Y9 ADVANCED STUDENTS :</p> <ol style="list-style-type: none"> 1. JAUHARI Malay Textbook and Workbook (Ekspress 1A) 2. JAUHARI Malay Textbook and Workbook (Ekspress 1B) 3. Antologi KOMSAS Kasut Kelopak Jantung Tingkatan 1 	<p>REQUIRED BOOKS FOR Y10: JAUHARI Malay Textbook and Workbook (Ekspress 2A)</p> <p>JAUHARI Malay Textbook and Workbook (Ekspress 2B)</p>	<p>REQUIRED BOOKS FOR Y11: EPB Bahasa Melayu B Menengah 3 (Textbook and Workbook)</p>	-	-

Subject	Topics for Terms	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Languages (Malay, French, Mandarin)	1, 2 & 3 (French)	<ul style="list-style-type: none"> Verbs: être, avoir, faire, aller and regular -er conjugation in present tense Reflexive verbs in present tense Personal pronouns Ask questions Make negative sentences Gender and plural of nouns Definite and indefinite articles Adjectives and their agreement with nouns Basic use of prepositions Possessive adjectives 	<ul style="list-style-type: none"> Immediate future with aller Introduction to past tense (passé composé) Intensifiers Imperative Places and directions Jouer à vs. jouer de Adjectives and their agreement with nouns Possessive adjectives Modal verbs pouvoir and vouloir 	<ul style="list-style-type: none"> Immediate future Passé composé Imperfect tense Future tense Modal verbs Imperative Ordinal numbers Disjunctive pronouns Superlatives Introduction to object pronouns 	<ul style="list-style-type: none"> Passé composé vs. Imparfait Future tenses 'depuis' + present tense 'en' + present participle Direct and indirect object pronouns Pronouns 'en' and 'y' Possessive and demonstrative adjectives Disjunctive, emphatic, possessive and demonstrative pronouns 	<ul style="list-style-type: none"> Relative pronouns Conditional Introduction to direct and indirect speech Connecting verbs and objects with 'à' and 'de' Introduction to subjunctive (present) 	<ul style="list-style-type: none"> Common tenses (PC, imparfait, 2 futures) Conditional Passive voice Subjunctive present Direct and indirect speech Object pronouns Advanced prepositions 	<ul style="list-style-type: none"> Common tenses (PC, imparfait, 2 futures, conditional) Conditional perfect Future perfect Past historic Passive voice Perfect subjunctive Direct and indirect speech Inversions
	BOOKS	REQUIRED FOR Y7: <ul style="list-style-type: none"> Textbook: Collins - Mission Français Pupil Book 1 Workbook: Collins - Mission Français Workbook 1 	REQUIRED FOR Y8: <ul style="list-style-type: none"> Textbook: Collins - Mission Français Pupil Book 1 Workbook: Collins - Mission Français Workbook 1 	REQUIRED FOR Y9: <ul style="list-style-type: none"> Textbook: Collins - Mission Français Pupil Book 2 Workbook: Collins - Mission Français Workbook 2 	REQUIRED FOR Y10: <ul style="list-style-type: none"> Textbook: Hodder - Cambridge IGCSE and International Certificate, French Workbook: Hodder - Cambridge IGCSE and International Certificate, French: Grammar Workbook 	REQUIRED FOR Y11: <ul style="list-style-type: none"> Textbook: Hodder - Cambridge IGCSE and International Certificate, French Workbook: Hodder - Cambridge IGCSE and International Certificate, French: Grammar Workbook 	REQUIRED FOR Y12: <ul style="list-style-type: none"> Textbook: Oxford University Press - AQA French AS Workbook: Oxford University Press - AQA French AS: Grammar Workbook Introduction to literature: "Le petit prince" by St. Exupery 	REQUIRED FOR Y13: <ul style="list-style-type: none"> Textbook: Oxford University Press - AQA French A2 Workbook: Oxford University Press - AQA French A2: Grammar Workbook

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Languages (Malay, French, Mandarin)	1, 2 & 3 (Mandarin A Foreign Language)	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters • Measure word • Different words category: adverb, noun, verb, adjective etc. • simple prepositions, questions words, ways to ask question. 	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters • Measure word • Different words category: adverb, noun, verb, adjective etc. • simple prepositions, questions words, ways to ask question. 	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters • Measure word • Different words category: adverb, noun, verb, adjective etc. 	<ul style="list-style-type: none"> • Pronunciation • Chinese characters • Eating out: introduction of Chinese cuisine • Houses: the housing and property in contemporary China • Furniture and electrical appliances • Neighbourhood and environment • School life • Our world: humans, marvels and dangers of life, living conditions • Culture: Chinese songs, movies and movie stars 	<ul style="list-style-type: none"> • Eating habit: introduction of Chinese cuisine • Houses: the housing and property in contemporary China • Furniture and electrical appliances • Neighbourhood and environment • School life • Our world: humans, marvels and dangers of life, living conditions • Culture: Chinese songs, movies and movie stars • Pronunciation • Chinese characters 	-	-
	BOOKS	Y7 : Easy Steps to Chinese 1 (Textbook & Workbook)	Y8 STUDENTS: • Easy Steps to Chinese 1 (Textbook & Workbook) • Easy Steps to Chinese 2 (Textbook & Workbook)	Y9 STUDENTS : • Easy Steps to Chinese Textbook and Workbook 2	Y10 STUDENTS: • Easy Steps to Chinese Textbook and Workbook 2 • Easy Steps to Chinese Textbook and Workbook 3	Y11 STUDENTS : • Easy Steps to Chinese Textbook and Workbook 3 • IGCSE Mandarin as Foreign Language Past year papers	-	-

Subject	Topics for Terms	Year 7	Year 8	Year 9	Year 10	Year 11	Year 12	Year 13
Languages (Malay, French, Mandarin)	1, 2 & 3 (Mandarin As First Language)	<ul style="list-style-type: none"> • 1 Parts of Speech • 2 Adverbs • 3 Conjunctions • 4 Numbers • 5 Particles • 6 Verbs o 6.1 Auxiliary verbs o 6.2 Verb phrases • 7 Grammatical Structures o 7.1 Basics o 7.2 Question Forms • 8 Comparisons o 8.1 Numbers 	<ul style="list-style-type: none"> • Adjectives • Adverbs • Auxiliary Words • Conjunctions • Nouns • Particles • Prepositions • Sentence patterns • Verbs • Grammatical Structures • ""But"" Statements • ""Even If"" Statements • ""If"" Statements • ""No Matter"" Statements • Cause/Effect Statements • Complements • Conditional Statements • Sentence Patterns • Comparisons • Adverbs • Conjunctions • Prepositions • Separate Functions • Time Words 	Parts of Speech <ul style="list-style-type: none"> o 1.1 Adverbs o 1.2 Auxiliary Words o 1.3 Conjunctions o 1.4 Nouns o 1.5 Particles o 1.6 Prepositions o 1.7 Sentence patterns o 1.8 Verbs <ul style="list-style-type: none"> • 2 Grammatical Structures • 3 Comparisons 	<ul style="list-style-type: none"> • Vocabulary: 800 vocabularies • Reading and Comprehension: Descriptive article, Narrative article & Argumentative article • Writing: Narrative article and Argumentative article 	<ul style="list-style-type: none"> • Reading & comprehension Focus: Narrative article and Argumentative article. • Writing focus: Narrative article and Argumentative article. • IGCSE Past Year papers 	-	-
	BOOKS	Y7 STUDENTS: • Easy Steps to Chinese 6 Textbook (轻松学汉语 6 课本)	Y8 STUDENTS: • Easy Steps to Chinese 7 Textbook (轻松学汉语 7 课本)	Y9 STUDENTS: • Easy Steps to Chinese 8 Textbook (轻松学汉语 8 课本)	<ul style="list-style-type: none"> • Term 1: Boya Chinese intermediate 2 «BOYA 博雅汉语准中级加速2» • Term 2: Boya Chinese higher intermediate 1 «BOYA 博雅汉语中级冲刺1» • Term 3: Boya Chinese higher intermediate 2 «BOYA 博雅汉语中级冲刺2» 	Y11 STUDENTS: • Boya Chinese Advance 1 «BOYA 博雅汉语高级飞翔篇 1»	-	-

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Languages (Malay, French, Mandarin)	1, 2 & 3 (Mandarin As A Second Language)	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters (Basic Strokes, Compound Strokes, Radicals) • Measure word • Different words category: adverb, noun, verb, adjective etc. • Simple prepositions, questions words, ways to ask and answer question. 	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters (Basic Strokes, Compound Strokes, Radicals) • Measure word • Different words category: adverb, noun, verb, adjective etc. • Simple prepositions, questions words, ways to ask and answer question. • Complex sentence order 	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters • Measure word • Different words category: adverb, noun, verb, adjective etc. • Simple prepositions, questions words, ways to ask and answer question. • Complex sentence order 	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters • Measure word • Different words category: adverb, noun, verb, adjective etc. • Simple prepositions, questions words, ways to ask and answer question. • Complex sentence order <p>IGCSE paper:</p> <ul style="list-style-type: none"> • IGCSE paper and mark scheme introduction • Essay reading and writing skill • Reading comprehension practise, WH questions • Oral script preparation and practise 	<ul style="list-style-type: none"> • Pronunciation (Pinyin system: initials, finals and tones) • Chinese characters • Measure word • Different words category: adverb, noun, verb, adjective etc. • Simple prepositions, questions words, ways to ask and answer question. • Complex sentence order <p>IGCSE paper:</p> <ul style="list-style-type: none"> • IGCSE paper and mark scheme introduction • Essay reading and writing skill • Reading comprehension practise, WH questions • Oral script preparation and practise 	-	-
	BOOKS	<p>Y7 STUDENTS:</p> <ul style="list-style-type: none"> • Easy Steps to Chinese Textbook and Workbook 1 • Chinese Made Easy 1 	<p>Y8 STUDENTS:</p> <ul style="list-style-type: none"> • Easy Steps to Chinese Textbook and Workbook 2 • Chinese Made Easy 2 	<p>Y9 STUDENTS:</p> <ul style="list-style-type: none"> • Easy Steps to Chinese Textbook and Workbook 2 and 3 • Chinese Made Easy 2 and 3 	<p>Y10 STUDENTS:</p> <ul style="list-style-type: none"> • Easy Steps to Chinese Textbook and Workbook 2 and 3 • Chinese Made Easy 2 and 3 	<p>Y11 STUDENTS:</p> <ul style="list-style-type: none"> • Easy Steps to Chinese Textbook and Workbook 3 • Chinese Made Easy 3 	-	-