



Curriculum Plan

Academic Year 2021-22

Subject: English Language

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p>Bridging the gap: iGCSE to AS Level Paper 1: Reading</p> <p>Students will develop their knowledge and understanding of an extensive and wide range of content throughout the first term. They learn to adopt methods (GASP, CLIGPO) to analyse a variety of components within the English language, adopting a more in-depth and detailed approach than at iGCSE. They will then transfer skills acquired by applying them to their own work. A heavy focus will be placed on secondary reading and independent study to offer the opportunity to students to become more responsible and better prepared for life at university.</p> <ul style="list-style-type: none"> • Advertisements • Brochures • Leaflets 	<p>AS Level Paper 2: Writing</p> <p>The knowledge and understanding that students will need to show in Paper 2 is the same as is covered in Paper 1 but students will apply these skills and techniques in a number of ways, including:</p> <ul style="list-style-type: none"> • Writing for a specific audience and purpose • Structuring your writing • Using a range of appropriate linguistic and literary features • Expressing ideas clearly and accurately • Reflecting upon and evaluating the qualities of your own writing, including aspects relating to its purpose, form and audience. 	<p>Review Sessions/ Study Leave</p> <p>Students use this time to focus on what is required for the exam. This will range from:</p> <ul style="list-style-type: none"> • Review sessions in class • Using their coursework effectively to self-study • A variety of past practice papers • Learning to make effective use of time. <p>All practice papers will be marked in class and the students will be given opportunity to revise their answers in order to create models.</p> <p>During study leave, students are encouraged to maintain diligence towards their chosen academic subject whilst regularly communicating with their teacher.</p>



	<ul style="list-style-type: none"> • Editorials • News stories • Articles • Reviews • Blogs • Investigative journalism • Letters • Podcasts • (auto) biographies • Travel writing • Diaries • Essays • Scripted speech • Narrative writing • Descriptive writing 		
Assessment	<ul style="list-style-type: none"> • End of Unit Tests • Practice Papers • Extended Writing (in class/ homework) • Coursework • Mock Exam 	<ul style="list-style-type: none"> • End of Unit Tests • Practice Papers • Extended Writing (in class/ homework) • Coursework • Mock Exam 	<ul style="list-style-type: none"> • 2nd Mock Exam / External Exam • Self-study • Practice Papers



Curriculum Plan
Subject: Mathematics
Exam Board: Edexcel

Academic Year 2021-22

Year: 12

	Term 1	Term 2	Term 3
	<p><u>Pure Mathematics 1</u></p> <p>Algebraic Expression Quadratics Equations and Inequalities Graphs and Transformations Straight Line Graphs Trigonometric Ratios Radians Differentiation Integration</p> <p><u>Pure Mathematics 2</u></p> <p>Algebraic Methods Coordinate Geometry in the (x,y) Plane Exponentials and Logarithm The Binomial Expansion</p>	<p><u>Pure Mathematics 2 (cont)</u></p> <p>Sequence and Series Trigonometric Identities and Equations Differentiation Integration</p> <p><u>Statistics 1</u></p> <p>Mathematical Modelling Measure of Location and Spread Representation of Data Probability Correlation and Regression Discrete Random Variables</p>	<p><u>Statistics 1 (cont)</u></p> <p>The Normal Distribution</p> <p>Review and Revision for final examinations</p>
Assessment	End of topic assessments and the first mock examination (P1)	End of topic assessments and assessed past papers	Second set of formal mock examination, assessed past papers and the P1, P2, S1 A Level examinations



Curriculum Plan

Academic Year 2021-22

Subject: Physics

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	Physical quantities and units 1.1 Physical quantities 1.2 SI units 1.3 Errors and uncertainties 1.4 Scalars and vectors Kinematics 2.1 Equations of motion Dynamics 3.1 Momentum and Newton's laws of motion 3.2 Non-uniform motion 3.3 Linear momentum and its conservation Forces, density and pressure 4.1 Turning effects of forces 4.2 Equilibrium of forces 4.3 Density and pressure Work, energy and power 5.1 Energy conservation 5.2 Gravitational potential energy and kinetic energy	Deformation of solids 6.1 Stress and strain 6.2 Elastic and plastic behaviour Waves 7.1 Progressive waves 7.2 Transverse and longitudinal waves 7.3 Doppler effect for sound waves 7.4 Electromagnetic spectrum 7.5 Polarisation Superposition 8.1 Stationary waves 8.2 Diffraction 8.3 Interference 8.4 The diffraction grating Electricity 9.1 Electric current 9.2 Potential difference and power 9.3 Resistance and resistivity	D.C. circuits 10.1 Practical circuits 10.2 Kirchhoff's laws 10.3 Potential dividers Particle physics 11.1 Atoms, nuclei and radiation 11.2 Fundamental particles Manipulation, measurement and observation Presentation of data and observations Analysis, conclusions and evaluation
Assessment	End of Unit Assessments Mock Examination	End of Unit Assessments Mock Examination	End of Unit Assessments Mock Examination



Curriculum Plan

Academic Year 2021-22

Subject: Chemistry

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p>Physical chemistry</p> <p>1 Atomic structure 2 Atoms, molecules and stoichiometry 3 Chemical bonding 4 States of matter 5 Chemical energetics 6 Electrochemistry 7 Equilibria 8 Reaction kinetics</p> <p>Inorganic chemistry</p> <p>9 The Periodic Table: chemical periodicity 10 Group 2 11 Group 17 12 Nitrogen and sulfur</p>	<p>Organic chemistry</p> <p>13 An introduction to AS Level organic chemistry 14 Hydrocarbons 15 Halogen compounds 16 Hydroxy compounds 17 Carbonyl compounds 18 Carboxylic acids and derivatives 19 Nitrogen compounds 20 Polymerisation 21 Organic synthesis</p>	<p>Analysis</p> <p>22 Analytical techniques</p> <p><u>Exam Prep</u></p>
Assessment	End of Unit Tests, Exam based questions Practice Papers	End of Unit Tests, Exam based questions Practice Papers	External Examinations



Curriculum Plan

Academic Year 2021-22

Subject: Biology

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p>1 Cell structure 1.1 The microscope in cell studies 1.2 Cells as the basic units of living organisms</p> <p>2 Biological molecules 2.1 Testing for biological molecules 2.1 Testing for biological molecules 2.2 Carbohydrates and lipids continued 2.3 Proteins 2.4 Water</p> <p>3 Enzymes 3.1 Mode of action of enzymes 3.2 Factors that affect enzyme action</p> <p>4 Cell membranes and transport 4.1 Fluid mosaic membranes 4.2 Movement into and out of cells</p> <p>5 The mitotic cell cycle 5.1 Replication and division of nuclei and cells 5.2 Chromosome behaviour in mitosis</p>	<p>6 Nucleic acids and protein synthesis 6.1 Structure of nucleic acids and replication of DNA 6.2 Protein synthesis</p> <p>7 Transport in plants 7.1 Structure of transport tissues 7.2 Transport mechanisms</p> <p>8 Transport in mammals 8.1 The circulatory system 8.2 Transport of oxygen and carbon dioxide 8.3 The heart</p> <p>9 Gas exchange 9.1 The gas exchange system</p> <p>10 Infectious diseases 10.1 Infectious diseases 10.2 Antibiotics</p>	<p>11 Immunity 11.1 The immune system 11.2 Antibodies and vaccination</p> <p>Exam Prep: Theory and Practical Skills</p>
Assessment	End of Unit Tests, Exam based questions Practice Papers	End of Unit Tests, Exam based questions Practice Papers	External Examinations



Curriculum Plan
Subject: History
Exam Board: Edexcel

Academic Year 2021-22

Year: 12

	Term 1	Term 2	Term 3
	Paper 1 <ul style="list-style-type: none">• Late Anglo-Saxon England• Norman conquest• State, church and society• Normandy• Anglo-Saxon and Norman overview• Reasons for crusades	Paper 2 <ul style="list-style-type: none">• Leadership of crusades• Crusader states• Muslim response• Fourth Crusade	Revision <ul style="list-style-type: none">• Review• Past Papers
Assessment	Unit Tests Mock exam Past paper questions	Unit Tests Mock exam Past paper questions	Written Exam



Curriculum Plan

Academic Year 2021-22

Subject: Art & Design

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p>Component 1(Personal Investigation) developing written and practical work. Creating a portfolio and final outcome.</p> <p>Six sheets A2 on BOTH SIDES plus one A2 final outcome.</p>	<p>Students are given an externally set assignment and must produce work according to a chosen theme.</p>	<p>Students start with Component 3(Personal Investigation) and prepare for the final assessment of their coursework.</p> <p>By now the student should have a clear understanding of the assessment objectives.</p>
Assessment	<p>Component 1 A level Portfolio planning and final outcome</p>	<p>Component 2 A level Extended Set Assignment</p>	<p>Start Component 3 Personal investigation</p>



Curriculum Plan

Academic Year 2021-22

Subject: Computer Science

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p>Data, information, knowledge and processing:</p> <ul style="list-style-type: none"> • Impact of Information Technology. • Sources of data. • Quality of information. • Coding, encoding and encrypting data. • Checking the accuracy of data. 	<p>The digital divide:</p> <ul style="list-style-type: none"> • Economic demographics. • Rural. • Education. • Socioeconomics. • Client performance. 	<p>Sound and video editing:</p> <ul style="list-style-type: none"> • Edit a video clip. • Sound and overdub. • Compress and resolutions. • Video editing features. • Sampling rates.
	<p>Hardware and software:</p> <ul style="list-style-type: none"> • Hardware. • System, application and user interface software. • Utility software. • Custom written software and off-the-shelf software. • Compiler and interpreter. 	<p>Using networks:</p> <ul style="list-style-type: none"> • Wan-Lan. • Client-Servers • Peer-to-peer networks. • VPN. • Intranets and Extranets. • Internet. • Mobile Networks. • Video and web conferencing. • (ISDN), 802.11, wireless, ADSL, SDSL, 3G/4G mobile networks. 	<p>Exam Prep</p>
	<p>Monitoring and control:</p> <ul style="list-style-type: none"> • Hardware and software. • Sensors. • Monitoring technologies. • Control technologies. 	<p>Expert systems and other types of processing:</p> <ul style="list-style-type: none"> • Components. • Backward chaining. • Forward chaining. • Master and Transaction files • Batch, online interactive and real time processing. 	<p>Exam Prep</p>



	<p>E-safety and health and safety:</p> <ul style="list-style-type: none">• Impact of Information Technology.• The internet.• Smishing.• Vishing.• Phishing.• Pharming.• Health issues.	<p>Database and file concepts:</p> <ul style="list-style-type: none">• Data types including: text, alphanumeric, numeric (integer, decimal), date/time, Boolean.• One-to-one, one-to-many and many-to-many.• Relationship diagram/tables.• Primary key.• Compound key.• Foreign key.• Referential integrity.• Validation.• Complex/Nested queries.• Data entry forms.• Switchboard menus in databases.• Normalisation to third normal form (3NF).• Data dictionary.• Query selection.• File and data management (MIS).	<p>Exam Prep</p>
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	<p>Spreadsheets:</p> <ul style="list-style-type: none"> • Structure. • Cell manipulation. • Formatting cells. • Formulae. • Functions: (sum, average, minimum, maximum, integer, rounding, counting, IF, nested IF, lookup, INDEX/MATCH, conditional formulae to include counting, sum, average. • Validation rules. • Effective evaluation. • Extract Data: • text, numeric, date, time, Boolean operators (AND, OR, NOT), >, <, =, .>=, <=, contains, starts with, ends with. • Display data using pivot tables/charts. • Import and export data. • Graphs and charts. • Modelling; What If. Simulations. 		
Assessment	End of Unit Tests	End of Unit Test/ Mock Exam	2 nd Mock Exam / External Exam



Year Group	Term 1	Term 2	Term 3
11, 12, 13 Core PE	<p><u>Block 1</u> <u>Invasion Games</u></p> <ul style="list-style-type: none"> • Keeping possession (dribbling, passing, receiving). • Attacking play. • Defensive play. • Scoring. • Rules and Regulations. • Tactics. <p><u>Block 2</u> <u>Health Related Exercise</u></p> <ul style="list-style-type: none"> • Fitness testing protocols and performance. • Warm up and cool down. • Principles and Methods of Training. • Aerobic and anaerobic energy systems. 	<p><u>Block 3</u> <u>Swimming</u></p> <ul style="list-style-type: none"> • Stroke development (freestyle, breaststroke, backstroke, butterfly). • Diving and other entry methods. • Water safety and personal survival. • Threading water and float creation with clothes. <p><u>Block 4</u> <u>Net/Wall</u></p> <ul style="list-style-type: none"> • Overhead and underarm clear. • Smash, drop-shot, drive. • Serve (long, short, flick). • Tactical game play, shot selection and movement around the court. 	<p><u>Block 5</u> <u>Striking and Fielding</u></p> <ul style="list-style-type: none"> • Batting/hitting. • Bowling/pitching. • Throwing and catching. • Fielding. • Back stop. • Base play. <p><u>Block 6</u> <u>Athletics</u></p> <ul style="list-style-type: none"> • Short and long-distance running events. • Relay races, baton changeover within the boundaries. • Long Jump and High Jump. • Shot put. • Discus.



Assessment	Teacher Observations Peer-Assessment Self-Assessment Video Analysis	Teacher Observations Peer-Assessment Self-Assessment Video Analysis	Teacher Observations Peer-Assessment Self-Assessment Video Analysis



Curriculum Plan

Academic Year 2021-22

Subject: Psychology

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p><u>Research Methods</u></p> <ul style="list-style-type: none"> • Types of Data • Hypotheses and aims • Variables • Sampling of participants • Experimental design • Controlling variables • Reliability • Validity • Ethics • Data analysis <p><u>Issues & Debates</u></p> <ul style="list-style-type: none"> • the application of psychology to everyday life • individual and situational explanations • nature versus nurture • the use of children in psychological research • the use of animals in psychological research 	<p><u>Biological approach</u></p> <ul style="list-style-type: none"> • Canli et al. study • Dement and Kleitman study • Schachter and Singer study <p><u>Cognitive approach</u></p> <ul style="list-style-type: none"> • Andrade study • Baron-Cohen et al. study • Laney et al. study <p><u>Learning approach</u></p> <ul style="list-style-type: none"> • Bandura et al. study • Saavedra and Silverman study • Pepperberg study 	<p><u>Social approach</u></p> <ul style="list-style-type: none"> • Milgram study • Piliavin et al. study • Yamamoto et al. study <p><u>Revision</u></p>
Assessment	Unit Tests Mock Exam	Unit Tests Mock Exam	Unit Tests Mock Exam



Curriculum Plan

Academic Year 2021-22

Subject: Business Studies

Exam Board: Cambridge International Examinations

Year: 12

	Term 1	Term 2	Term 3
	<p>1 Business and environment</p> <ul style="list-style-type: none"> • Enterprise • Business structure • Size of business • Business objectives • Stakeholders in a business <p>2 People in organisations</p> <ul style="list-style-type: none"> • Management and leadership • Motivation • Human resource management 	<p>3 Marketing</p> <ul style="list-style-type: none"> • What is marketing? • Market research • The marketing mix <p>4 Operations and project management</p> <ul style="list-style-type: none"> • The nature of operations • Operations planning • Inventory management 	<p>5 Finance and accounting</p> <ul style="list-style-type: none"> • The need for business finance • Sources of finance • Costs • Accounting fundamentals • Forecasting cash flows and managing working capital <p>6. Exam Practice and Revision</p>
Assessment	<ul style="list-style-type: none"> - End of Unit Tests - Past/Specimen Papers and Mark Schemes 	<ul style="list-style-type: none"> - End of Unit Test/ Mock Exam - Past/Specimen Papers and Mark Schemes 	<ul style="list-style-type: none"> - 2nd Mock Exam / External Exam/s - Past/Specimen Papers and Mark Schemes