



Curriculum Plan
Subject: Mathematics
Exam Board: Edexcel

Academic Year 2021-22

Year: 13

	Term 1	Term 2	Term 3
	<p><u>Pure Mathematics 3</u></p> <p>Functions and Graphs Trigonometric Functions Trigonometric Addition Formulae Exponentials and Logarithms Differentiation Integration Numerical Methods</p> <p><u>Pure Mathematics 4</u></p> <p>Proof Partial Fractions Coordinate Geometry in the (x,y) Plane Binomial Expansion</p>	<p><u>Pure Mathematics 4 (cont)</u></p> <p>Differentiation Integration Vectors</p> <p><u>Decision Mathematics 1</u></p> <p>Algorithms Graphs and Networks Algorithms on Graphs Route Inspection Travelling Salesman Critical Path Analysis Linear Programming</p>	<p>Review and Revision for final examinations</p>
Assessment	End of topic assessments and the first mock examination (P3)	End of topic assessments and assessed past papers	Second set of formal mock examination, assessed past papers and the P3, P4, D1 A Level examinations



Curriculum Plan

Academic Year 2021-22

Subject: Art & Design

Exam Board: Cambridge International Examinations

Year: 13

	Term 1	Term 2	Term 3
	The students will revisit the coursework started in the previous year and start on Component 3 (Personal Investigation) developing written and practical work.	Students continue with Component 3(Personal Investigation) developing written and practical work.	Students continue with Component 3(Personal Investigation) and prepare for the final assessment of their coursework. By now the student should have a clear understanding of the assessment objectives.
Assessment	Component 3 IGCSE A level	Component 3 IGCSE A level	Select and present work ready to submit to Cambridge



Curriculum Plan

Academic Year 2021-22

Subject: Computer Science

Exam Board: Cambridge International Examinations

Year: 13

	Term 1	Term 2	Term 3
	Emerging technologies: <ul style="list-style-type: none"> • describe emerging technologies • 3D printing. • 4G. • 5G cellular communications. • Artificial intelligence. • Augmented reality. • Biometrics. • Cloud computing. • QR. • Wearables. 	Graphics creation: <ul style="list-style-type: none"> • Vector images. • Bitmap images • Layers. • Gradients. • Filters. • Masking. • Opacity. • Compression. • Image editing on society. 	Exam Prep
	Role and impact of IT in society: <ul style="list-style-type: none"> • E-business. • Social networking. • Video conferencing and teleworking. • Technology in society. • Technology enhanced learning. 	Animation: <ul style="list-style-type: none"> • Stop Frame Animation. • Tweening. • Morphing. • Objects. • Text. • Masking layers. 	Exam Prep
	Networks: <ul style="list-style-type: none"> • Network components. • Network security. • Satellite Communication Systems. 	Mail merge: <ul style="list-style-type: none"> • Master document. • Source Files. • Variable fields. • Why mail merge documents are created. 	Exam Prep
	Project management: <ul style="list-style-type: none"> • Stages in project management. • Types of project management. • Project management software. • Critical path analysis. 	Programming for the web: <ul style="list-style-type: none"> • Number, string, Boolean, array. • Assign variables. • Basic string manipulation. • Arrays. • Logical operators. 	Exam Prep



	<ul style="list-style-type: none"> • Gantt charts. • Disaster recovery management. • Prototyping. • CAD/CAM 	<ul style="list-style-type: none"> • Conditional statements. • Loops. • Functions. • Create html forms. • JavaScript code. • Output/display data. • Interactive webpages. • JavaScript terms. • Programming techniques. 	
	<p>System life cycle:</p> <ul style="list-style-type: none"> • Analysis. • Design. • Development and testing. • Implementation. • Documentation. • Evaluation and maintenance. 		
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: 13

	Term 1	Term 2	Term 3
	<p><u>Psychological Disorders</u></p> <ul style="list-style-type: none"> • Schizophrenic and psychotic disorders • Bipolar and related disorders • Impulse control disorders and non-substance addictive disorders • Anxiety disorders • Obsessive - compulsive and related disorders 	<p><u>Consumer Psychology</u></p> <ul style="list-style-type: none"> • The physical environment • The psychological Environment • Consumer decision-making • The product • Advertising 	<ul style="list-style-type: none"> • Issues & Debates <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: 13

	Term 1	Term 2	Term 3
	<p>1 Business and environment</p> <ul style="list-style-type: none"> • Business structure • Size of business • External influences on business activity <p>2 People in organisations</p> <ul style="list-style-type: none"> • Human resource management • Organisational structure • Business communication <p>3. Marketing</p> <ul style="list-style-type: none"> • Marketing planning • Globalisation and international marketing 	<p>4. Operations and project management</p> <ul style="list-style-type: none"> • Operations planning • Capacity utilisation • Lean production and quality management • Project management <p>5. Finance and accounting</p> <ul style="list-style-type: none"> • Costs • Budgets • Contents of published accounts • Analysis of published accounts • Investment appraisal 	<p>6. Strategic Management</p> <ul style="list-style-type: none"> • What is strategic management? • Strategic analysis • Strategic choice • Strategic implementation <p>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



Curriculum Plan
Subject: Mandarin
Exam Board: Edexcel

Academic Year 2021-22

Year: 13

	Term 1	Term 2	Term 3
	文学作品：故乡 主题三：演变中的华人社会 - 互联网 - 社交媒体 - 经济发展 - 环境保护	主题四：改革开放对中国的影响 - 贫富差距 - 超级大都市 - 城市移民 主题四：中英关系 - 贸易 - 文化交流 - 教育交流	笔试部分复习备考 口语考试复习备考
Assessment	第一次模拟考试	第二次模拟考试	A Level 口语考试（四月） A Level 笔试（六月）