

Year 12 Art and Design Curriculum 2021/22 – OCR H601

Autumn Term	Spring Term	Summer Term
<p>TOPIC: PORTFOLIO SKILLS DEVELOPMENT</p> <p>portraiture, still life, life drawing, landscape, abstraction, experimental imagery, narrative, installation.</p> <p>Key Skills: mark making/painting/drawing/printmaking/casting/carving/photographic printing and digital manipulation/mixed media/collage</p> <ul style="list-style-type: none"> • pictorial space and real space, composition, rhythm, scale and structure. • selecting, editing and developing ideas • using appropriate visual language and terminology with fine art • manipulating imagery • developing outcomes • using different media and new techniques 	<p>TOPIC: THEMATIC PORTFOLIO DEVELOPMENT</p> <p>Key Skills: develop appropriate processes and techniques, using traditional and or digital media, appropriate to chosen subject area, enabling research, exploration and the creation of final outcome(s).</p> <ul style="list-style-type: none"> • visit to Art Galleries to inform work • understanding and using relevant conventions and genres in Art such as figurative, abstract and symbolic • sketchbook and portfolio development • working on location as appropriate to intentions • selecting, editing and developing ideas • Contextual research and presentations. 	<p>TOPIC: THEMATIC PORTFOLIO DEVELOPMENT Continued INTERNAL ASSESSMENT/ INDEPENDENT ENQUIRY RELATED STUDY Students will have to choose a theme to work from and create a body of work that takes them on their own independent and artistic journey. Key Skills: critical review and reflection/ selection/ contextual/cultural development/ assessment</p> <ul style="list-style-type: none"> • portfolio development and selection • planning for summer exhibition • preparing for internal assessment • maximising potential • related personal study • (research over summer break for study) • presentation to peers on development of study • digital or tradition production of study started over the summer holiday

Year 12 Biology Curriculum 2021/22 – OCR H420

Autumn Term	Spring Term	Summer Term
<p><u>Module 2</u></p> <ul style="list-style-type: none"> • Cell structure • Biological molecules • Enzymes • Cell membranes and cell transport • Nucleotides and nucleic acids <p><u>Module 3</u></p> <ul style="list-style-type: none"> • Transport in animals 	<p><u>Module 2</u></p> <ul style="list-style-type: none"> • Nucleotides and nucleic acids (cont'd) • Cell division, cell diversity and cellular organisation <p><u>Module 3</u></p> <ul style="list-style-type: none"> • Exchange surfaces • Transport in plants <p><u>Module 4</u></p> <ul style="list-style-type: none"> • Health and disease • Classification and evolution 	<p><u>Module 3</u></p> <ul style="list-style-type: none"> • Transport in plants (cont'd) <p><u>Module 4</u></p> <ul style="list-style-type: none"> • Classification and evolution (continued) • Biodiversity <p><u>Module 6</u></p> <ul style="list-style-type: none"> • Ecosystems • Populations and sustainability

Year 12 Chemistry Curriculum 2021/22 – OCR H432

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none">• atomic structure, atoms and reactions• bonding and structure• electron structure• Group 2• Group 7• periodicity	<ul style="list-style-type: none">• energetics• reaction rates• basics of organic chemistry• alkanes and alkenes• haloalkanes and alcohols• organic synthesis• analytical techniques	<ul style="list-style-type: none">• chemical equilibria• revision programme <p>After year 1 work is completed:</p> <ul style="list-style-type: none">• aromatic compounds• carboxyl compounds• lattice enthalpy• enthalpy and entropy
Development of practical skills runs throughout		

Year 12 Classical Civilisation Curriculum 2021/22 – OCR H408

Autumn Term	Spring Term	Summer Term
<p>Greek Art</p> <ul style="list-style-type: none"> • Introduction • Development of free-standing Greek sculpture [Archaic, Early Classical] <p>World of the Hero</p> <ul style="list-style-type: none"> • Virgil’s Aeneid Books 1-4 	<p>Greek Art</p> <ul style="list-style-type: none"> • Development of free-standing Greek sculpture [High Classical, Late Classical] • Architectural Sculpture [metopes & friezes] <p>World of the Hero</p> <ul style="list-style-type: none"> • Virgil’s Aeneid Books 5-10 	<p>Greek Art</p> <ul style="list-style-type: none"> • Architectural Sculpture [pediments, friezes and metopes with reference to specific temples] • Greek Vases <p>World of the Hero</p> <ul style="list-style-type: none"> • Virgil’s Aeneid Books 11-12 • Homer’s Iliad • Themes & characterisation.

Year 12 Computer Science Curriculum 2021/22 – OCR H446

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none">• 1.1.1 Structure and function of the processor• 1.1.2 Types of processor• 1.1.3 Input, output and storage• 1.2.1 Systems software• 1.2.2 Application generation• 1.2.3 Software development• 2.2.1 Programming techniques• Programming – Python Basics, and Intermediate	<ul style="list-style-type: none">• 1.2.4 Types of programming language• 1.3.1 Compression, encryption and hashing• 1.3.2 Databases• 1.3.3 Networks• Departmental assessment process• Programming – C#• Programming – HTML, Java-script, PHP	<ul style="list-style-type: none">• 1.3.4 Web technologies• 1.4.1 Data types• 1.4.2 Data structures• 1.4.3 Boolean Algebra• End of Year - Internal assessment process• 1.5.1 Computing Related Legislation• 1.5.2 Moral and Ethical Issues• Programming – Project Introduction, Definition, Analysis & Planning

Year 12 Economics Curriculum 2021/22 – AQA 7136

Autumn Term	Spring Term	Summer Term
<p>Microeconomics Unit</p> <p>The economic problem and economic methodology</p> <ul style="list-style-type: none"> • Nature and purpose of economic activity • Scarcity choice and the allocation of resources • Production possibility diagrams <p>Price determination in a competitive market</p> <ul style="list-style-type: none"> • Demand and supply determinants • Elasticity • Interrelationships between markets • Consumer and producer surplus <p><i>Half Term</i></p> <p>Microeconomics Unit</p> <p>Production, costs and revenue:</p> <ul style="list-style-type: none"> • Production and efficiency • Specialisation and labour division • Law of diminishing returns • Costs of production • Economies/Diseconomies of scale <p>Competitive and Concentrated Markets</p> <ul style="list-style-type: none"> • Market Structures • Objectives of Firms • Competitive markets • Monopoly power • Competitive Market Process 	<p>Microeconomics Unit</p> <p>The market mechanism, market failure and government intervention in markets:</p> <ul style="list-style-type: none"> • Price mechanism • Public, private, quasi-public goods • Market failure • Externalities • Market imperfections • Inequitable distribution of income/wealth • Merit/demerit goods • Government intervention • Government failure <p>Test on paper 1 content and feedback</p> <p>Macroeconomics Unit</p> <p>Measurement of macroeconomic performance</p> <ul style="list-style-type: none"> • Policy objectives • Macroeconomic indicators • Use of index numbers <p>How the macro economy works</p> <ul style="list-style-type: none"> • Circular flow of income • AD/AS Analysis • Aggregate demand determinants • The level of economic activity • Aggregate supply long and short run <p><i>Half Term</i></p> <p>Economic Performance</p> <ul style="list-style-type: none"> • Economic growth and the economic cycle • Employment/unemployment • Inflation/deflation • Current account balance and policy conflicts 	<p>Macroeconomic policy</p> <ul style="list-style-type: none"> • Monetary policy • Fiscal policy • Supply side policies <p>Revision for internal exam for A-Level</p> <p><i>Half term</i></p> <p><i>A level internal exams</i></p> <p><i>Exam feedback</i></p> <p>Globalisation</p> <ul style="list-style-type: none"> • The causes of globalisation • The main characteristics of globalisation • The consequences of globalisation for less- developed countries and more developed countries • The role of multinational corporations in globalisation

Year 12 English Language Curriculum 2021/22 – AQA 7702

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none">• Introduction to language levels and mode• Sociolinguistics (region and social groups)	<ul style="list-style-type: none">• Language and representation• Sociolinguistics (gender and occupation)	<ul style="list-style-type: none">• Original Writing (NEA)• Language Investigation (NEA)

Year 12 English Literature Curriculum 2021/22 – OCR H472

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Introduction to the <i>Women in Literature</i> genre and main text <i>Sense and Sensibility</i> by Jane Austen • <i>The Merchant's Prologue and Tale</i> by Geoffrey Chaucer 	<ul style="list-style-type: none"> • <i>Twelfth Night</i> by William Shakespeare • <i>A Doll's House</i> by Henrik Ibsen 	<ul style="list-style-type: none"> • <i>Twelfth Night</i> • Revision of <i>Sense and Sensibility</i> and unseen prose practise • Comparison of <i>A Merchant's Tale</i> and <i>A Doll's House</i> • Mock exams • NEA – <i>The World's Wife</i>, <i>The Prime of Miss Jean Brodie</i> and <i>The History Boys</i>.

Year 12 French Curriculum 2021/22 – AQA 7652

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Intensive Grammar Revision and Consolidation from GCSE • Baseline Assessment • Grammar extension to AS requirements • Developing Translation Skills • Developing Summary Skills • Speaking Spontaneously • Introduction to La Francophonie • Introduction to French culture –Film Club, Music Playlist and Social Media • Aspects of French-speaking society: current trends • Unit 1: The changing nature of family • Aspects of French-speaking society: current trends • Unit 2: The 'cyber-society' • Vocabulary Tests, Translations, Reading and Listening Summary, Card Discussion and End of Topic Assessment for each topic • 30 minutes Speaking Practice & 1 hour Study Support with FLA 	<ul style="list-style-type: none"> • Aspects of French-speaking society: current trends • Unit 3: The place of voluntary work • Artistic culture in the French-speaking world • Unit 5: Contemporary francophone music • Grammar extension to AS requirements • Developing Translation Skills • Developing Summary Skills • Speaking Spontaneously • Film Club, Music Playlist and Social Media • End of Year Assessment • Vocabulary Tests, Translations, Reading and Listening Summary, Card Discussion and End of Topic Assessment for each topic • 30 minutes Speaking Practice & 1 hour Study Support with FLA 	<ul style="list-style-type: none"> • Aspects of French-speaking society: current trends • Unit 4: A culture proud of its heritage • Aspects of French-speaking society: current trends • Unit 6: Cinema, the 7th form of art • Grammar extension to AS requirements • Developing Translation Skills • Developing Summary Skills • Speaking Spontaneously • Film Club, Music Playlist and Social Media • Departmental Assessment • Introducing La Haine and No et Moi • Introducing the Individual Research project • Vocabulary Tests, Translations, Reading and Listening Summary, Card Discussion and End of Topic Assessment for each topic • 30 minutes Speaking Practice & 1 hour Study Support with FLA

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 content below, A level Further Mathematics Year 2 content taught in Year 13 2022-2023) 2021/22 – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
<p>Pure Mathematics(AS): Unit 1 Algebraic expressions 1.1 Index laws 1.2 Expanding brackets 1.3 Factorising 1.4 Negative and fractional indices 1.5 Surds 1.6 Rationalising denominators</p> <p>Unit 2 Quadratics 2.1 Solving quadratic equations 2.2 Completing the square 2.3 Functions 2.4 Quadratic graphs 2.5 The discriminant 2.6 Modelling with quadratics</p> <p>Unit 3 Equations and inequalities 3.1 Linear simultaneous equations 3.2 Quadratic simultaneous equations 3.3 Simultaneous equations on graphs 3.4 Linear inequalities 3.5 Quadratic inequalities 3.6 Inequalities on graphs 3.7 Regions</p> <p>Unit 4 Graphs and transformations 4.1 Cubic graphs 4.2 Quartic graphs 4.3 reciprocal graphs 4.4 Points of intersection 4.5 translating graphs 4.6 Stretching graphs 4.7 transforming functions</p>	<p>Statistics (AS): Unit 5 Probability 5.1 Calculating probabilities 5.2 Venn diagrams 5.3 Mutually exclusive and independent events 5.4 Tree diagrams</p> <p>Unit 6 Statistical distributions 6.1 probability distributions 6.2 The binomial distribution 6.3 Cumulative probabilities</p> <p>Unit 7 Hypothesis testing 7.1 Hypothesis testing 7.2 Finding critical values 7.3 One-tailed tests 7.4 Two-tailed tests</p> <p>Mechanics (AS): Unit 8 Modelling in Mechanics 8.1 Constructing a model 8.2 Modelling assumptions 8.3 Quantities and units 8.4 Working with vectors</p> <p>Unit 9 Constant acceleration 9.1 Displacement-time graphs 9.2 Velocity-time graphs 9.3 Constant acceleration formulae 1 9.4 Constant acceleration formulae 2 9.5 Vertical motion under gravity Unit 10 Forces and motion</p>	<p>Pure Mathematics: Unit 10 Numerical methods 10.1 Location of roots 10.2 Iteration 10.3 Newton-Raphson method 10.4 Application to modelling e</p> <p>Unit 11 Integration 11.1 Integrating standard functions 11.2 Integrating $f(ax+ b)$ 11.3 Using trigonometric identities 11.4 Reverse chain rule 11.5 Integration by substitution 11.6 Integration by parts 11.7 Partial fractions 11.8 Finding areas 11.9 The trapezium rule 11.10 Solving differential equations 11.11 Integration as the limit of a sum</p> <p>Unit 12 Vectors (3D) 12.1 3D coordinates 12.2 Vectors in 3D 12.3 Solving Geometric problems 12.4 Application to mechanics</p> <p>Statistics (A level): Unit 1 Regression and correlation and hypothesis testing 1.1 Exponential models 1.2 Measuring correlation 1.3 Hypothesis testing for zero correlation</p>

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 content below, A level Further Mathematics Year 2 content taught in Year 13 2022-2023) 2021/22 (Cont'd) – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
<p>Unit 5 Straight line graphs 5.1 $y = mx + c$ 5.2 Equations of straight lines 5.3 Parallel and perpendicular lines 5.4 Length and area 5.5 Modelling with straight lines</p> <p>Unit 6 Circles 6.1 Midpoints and perpendicular bisectors 6.2 Equation of a circle 6.3 Intersections of straight line and circles 6.4 use tangent and chord properties 6.5 Circles and triangles</p> <p>Unit 7 Algebraic methods 7.1 Algebraic fractions 7.2 Dividing polynomials 7.3 The factor theorem 7.4 Mathematical proof 7.5 Methods of proof</p> <p>Unit 8 The binomial expansion 8.1 Pascal's triangle 8.2 Factorial notation 8.3 The binomial expansion 8.4 Solving binomial problems 8.5 Binomial estimation</p> <p>Unit 9 Trigonometric ratios 9.1 The cosine rule 9.2 The sine rule 9.3 Areas of triangles 9.4 Solving triangle problems 9.5 Graphs of sine, cosine and tangent 9.6 Transforming trigonometric graphs</p>	<p>10.1 Force diagrams 10.2 Forces as vectors 10.3 Forces and acceleration 10.4 Motion in 2 dimensions 10.5 Connected particles 10.6 Pulleys</p> <p>Unit 11 Variable acceleration 11.1 Functions of time 11.2 Using differentiation 11.3 Maxima and minima problems 11.4 Using integration 11.5 Constant acceleration formulae</p> <p>Pure Mathematics (A level) :</p> <p>Unit 1 Algebraic Methods 1.1. Proof by contradiction 1.2 Algebraic fractions 1.3 Partial fractions 1.4 Repeated factors 1.5 Algebraic division</p> <p>Unit 2 Functions and modelling 2.1 Modulus function 2.2 Functions and mappings 2.3 Composite functions 2.4 Inverse functions 2.5 $y = f(x)$ and $y = f(x)$ 2.6 Combining transformations 2.7 Solving modulus problems</p>	<p>Unit 2 Conditional Probability 2.1 Set notation 2.2 Conditional probability 2.3 Conditional probabilities in Venn diagrams 2.4 Probability formulae 2.5 Tree diagrams</p> <p>Unit 3 The Normal distribution 3.1 The normal distribution 3.2 Finding probabilities for normal distributions 3.3 The inverse normal distribution function 3.4 The standard normal distribution function 3.5 Finding μ and σ 3.6 Approximating a binomial distribution 3.7 Hypothesis testing with the normal distribution</p> <p>Mechanics (A level):</p> <p>Unit 4 Moments: 4.1 Moments 4.2 Resultant moments 4.3 Equilibrium 4.4 Centres of mass 4.5 Tilting</p> <p>Unit 5 Forces and Friction 5.1 Resolving forces 5.2 Inclined planes 5.3 Friction</p>

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 *content below*, A level Further Mathematics Year 2 content taught in Year 13 2022-2023) 2021/22 (Cont'd) – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
<p>Unit 10 trigonometric identities and equations 10.1 Angles in all 4 quadrants 10.2 Exact values of trigonometric ratios 10.3 Trigonometric identities 10.4 Simple trigonometric equations 10.5 Harder trigonometric equations 10.6 Equations and identities</p> <p>Unit 11 Vectors 11.1 Vectors 11.2 Representing vectors 11.3 Magnitude and direction 11.4 Position vectors 11.5 Solving geometric problems 11.6 Modelling with vectors</p> <p>Unit 12 Differentiation 12.1 Gradients of curves 12.2 Finding the derivative 12.3 Differentiating x^n 12.4 Differentiating quadratics 12.5 Differentiating functions with 2 or more terms 12.6 Gradients, tangents and normal 12.7 Increasing and decreasing functions 12.8 Second order derivatives 12.9 Stationary points 12.10 Sketching gradient functions 12.11 Modelling with differentiation</p> <p>Unit 13 Integration 13.1 Integrating x^n 13.2 Indefinite integrals 13.3 Finding functions 13.4 Definite integrals 13.5 Areas under curves 13.6 Areas under the x-axis 13.7 Areas between curves and lines</p>	<p>Unit 3 Sequences and Series 3.1 Arithmetic sequence 3.2 Arithmetic Series 3.3 Geometric sequence 3.4 Geometric Series 3.5 Sum to infinity 3.6 Sigma notation 3.7 Recurrence and iterations 3.8 Modelling with series</p> <p>Unit 4 The binomial theorem 4.1 Expanding $(1+x)^n$ 4.2 Expanding $(a+bx)^n$ for rational n; knowledge of range of validity 4.3 Expansion of functions by first using partial fractions</p> <p>Unit 5 Radians 5.1 Radians measures 5.2 Arc length 5.3 Areas of sectors and segment 5.4 Solving trig equations 5.5 Small angle approximation</p> <p>Unit 6 Trigonometric functions 6.1 Secant, cosecant and cotangent (definitions, identities and graphs); 6.2 Inverse trigonometrical functions; 6.3 Using inverse trigonometrical functions 6.4 Trigonometric identities 6.5 Inverse trigonometric functions Solving problems in context (e.g. mechanics)</p>	<p>Unit 6 Projectiles 6.1 Horizontal projection 6.2 Horizontal and vertical components 6.3 Projection at any angle 6.4 Projectile motion formulae</p> <p>Unit 7 Applications of forces 7.1 Static particle 7.2 Modelling with statics 7.3 Friction and static particles 7.4 Static rigid bodies 7.5 Dynamics and inclined planes 7.6 Connected particles</p> <p>Unit 8 Further kinematics 8.1 Vectors in kinematics 8.2 Vector methods with projectiles.</p> <p style="text-align: center;">INTERNAL A LEVEL MATHEMATICS EXAMINATION</p>

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 *content below*, A level Further Mathematics Year 2 content taught in Year 13 2022-2023) 2021/22 (Cont'd) – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
<p>Unit 14 Exponentials and logarithms 14.1 Exponential functions 14.2 $y = e^x$ 14.3 Exponential modelling 14.4 Logarithms 14.5 Laws of logarithms 14.6 Solving equations using logarithms 14.7 Working with natural logarithms 14.8 Logarithms and non-linear data</p> <p>Statistics (AS): Unit 1 Data collection 1.1 Populations and samples 1.2 Sampling 1.3 Non-random sampling 1.4 Types of data 1.5 The large data set</p> <p>Unit 2 Measures of location and spread 2.1 Measures of central tendency 2.2 Other measures of location 2.3 Measures of spread 2.4 Variance and standard deviation 2.5 Coding</p> <p>Unit 3 Representations of data 3.1 Outliers 3.2 Box plots 3.3 Cumulative frequency 3.4 Histograms 3.5 Comparing data</p> <p>Unit 4 Correlation 4.1 Correlation 4.2 Linear regression</p>	<p>Unit 7 Trigonometry and modelling 7.1 Addition formulae 7.2 Using the angle addition formulae 7.3 Double angle formulae 7.4 Solving trigonometric equations 7.5 Simplifying $a\cos x \pm b\sin x$ 7.6 Proving Trigonometric identities 7.7 Modelling with trigonometric functions</p> <p>Unit 8 Parametric equations 8.1 Parametric equations 8.2 Using trigonometric identities 8.3 Curve sketching 8.4 Points of intersection 8.5 Modelling with parametric equations</p> <p>Unit 9 Differentiation 9.1 Differentiating $\sin x$ and $\cos x$ from first principles 9.2 Differentiating exponentials and logarithms 9.3 The chain rule 9.4 The product rule 9.5 The quotient rule 9.6 Differentiating trigonometric functions 9.7 Parametric differentiation 9.8 Implicit differentiation 9.9 Using second derivatives 9.10 Rates of change</p>	

Year 12 Geography Curriculum 2021/22 – AQA 7037

Autumn Term	Spring Term	Summer Term
Coastal Systems Contemporary Urban Environments	Water & Carbon Cycle Changing Places	NEA – Independent Investigation Fieldwork

Year 12 German Curriculum 2021/22 – AQA 7662

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • baseline assessment • developing comprehension and writing skills • grammar revision and consolidation from GCSE • developing translation skills • speaking spontaneously <p>September – October Intensive grammar revision and extension</p> <p>Aspects of German Speaking Society Family</p> <p>Artistic Culture in the German-speaking World Celebrations and traditions</p> <p>November – December Aspects of German Speaking Society The digital world</p> <p>Artistic Culture in the German-speaking World Art and architecture</p>	<ul style="list-style-type: none"> • development of all examination skills <p>January – April Aspects of German Speaking Society Youth culture: fashion, music and television</p> <p>Artistic Culture in the German-speaking World The cultural life of Berlin: past and present</p> <p>Begin studying the film Goodbye Lenin.</p>	<ul style="list-style-type: none"> • Focus on essay writing related to the analysis of a film • Introduction of the Independent Research Project <p>Finish studying the film Goodbye Lenin and develop essay writing skills</p> <p>Consolidation of topics studied in Year 12.</p> <p>Introduction of IRP (individual research project)</p>

Year 12 History Curriculum 2021/22 – AQA 7042

Autumn Term	Spring Term	Summer Term
<p><u>Consolidation of the Tudor Dynasty: England, 1485–1547</u></p> <p>Henry VII, 1485–1509</p> <ul style="list-style-type: none"> Henry Tudor’s consolidation of power: character and aims; establishing the Tudor dynasty Government: councils, parliament, justice, royal finance, domestic policies Relationships with Scotland and other foreign powers; securing the succession; marriage alliances Society: churchmen, nobles and commoners; regional division; social discontent and rebellions Economic development: trade, exploration, prosperity and depression Religion; humanism; arts and learning 	<p>Preparation for January Examinations.</p> <p>Henry VIII, 1509–1547</p> <ul style="list-style-type: none"> Henry VIII: character and aims; addressing Henry VII’s legacy Government: Crown and Parliament, ministers, domestic policies including the establishment of Royal Supremacy Relationships with Scotland and other foreign powers; securing the succession Society: elites and commoners; regional issues and the social impact of religious upheaval; rebellion 	<ul style="list-style-type: none"> Economic development: trade, exploration, prosperity and depression Religion: renaissance ideas; reform of the Church; continuity and change by 1547 <p>See NEA</p>
<p><u>Great Power rivalries and entry into war, c1890–1917</u></p> <p>Great Powers: Britain, Germany, France, Russia and Austria-Hungary, c1890–1900</p> <ul style="list-style-type: none"> The political structures of the Great Powers: liberal democracies in Britain and France and autocracies in Germany, Russia and Austria-Hungary; the effect of political structures on decision making 	<p>Preparation for January Examinations.</p> <p>The Great Powers and Crises, 1900–1911</p> <ul style="list-style-type: none"> Forces of instability: Balkan nationalism and its significance for Austria-Hungary and Russia; militarism and the position of the German army in the Second Reich; the arms and naval races; military plans 	<ul style="list-style-type: none"> General war in Europe: mobilisation of German and Russian forces; the implementation of the Schlieffen Plan and the invasion of Belgium; Britain’s declaration of war; the key decision makers and their motives From European to World War: the escalation of the conflict; Italy’s motives for war; reasons for the entry of the USA <p>See NEA</p>

Year 12 History Curriculum 2021/22 (Cont'd) – AQA 7042

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Economic strengths and armed forces: the erosion of Britain’s economic supremacy; the rise of the German economy; economic reform in Russia; the relative strengths of the armed forces of the Great Powers • Empires and rivalries: the ‘Scramble for Africa’; Russo-Austro-Hungarian rivalry in the Balkans; Russia and the Ottoman Empire • The state of international relations by 1900: Anglo-French rivalry; Anglo-German relations; the Franco-Russian alliance; Germany’s Dual Alliance with Austria-Hungary; potential for conflict 	<p>Evolving alliances: the Moroccan crises; Anglo-French Entente; the formation of the Triple Entente</p> <ul style="list-style-type: none"> • The decline of the Ottoman Empire: the weakening of the Empire in Eastern Europe; the causes and consequences of the Young Turk Movement • Pan Slavism and the Bosnian Crisis: the causes, course and consequences of the Bosnian Crisis <p>The coming of war, 1911–1917</p> <ul style="list-style-type: none"> • The First and Second Balkan Wars: causes; attempts by the Great Powers to impose peace on the region; the impact of the Balkan Wars on the Great Powers and Serbia • The outbreak of war in the Balkans and the July Crisis: Austria-Hungary’s and Germany’s response to the assassination in Sarajevo; Russia’s response to Austria-Hungary’s demands on Serbia; the bombardment of Belgrade 	
<p>Teaching of coursework topic and sourcing of the required contemporary sources and historical debate. Preparation of research skills.</p>	<p>Teaching of coursework topic and sourcing of the required contemporary sources and historical debate. Preparation of research skills. Work with class teacher to finalise approach to question.</p> <p>Planning and preparation of draft.</p>	<p>Examination board to approve question. Preparation for draft write up to be completed over the summer holiday.</p>

Year 12 Latin Curriculum 2021/22 – OCR H443

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none">• revision of all aspects of GCSE grammar• increasing speed and confidence in translating passages of increasing difficulty• Defined vocabulary learning[old AS style]• Begin first A2 Prose text.	<ul style="list-style-type: none">• consolidation of grammatical points• new Grammar – impersonal verbs• Defined vocabulary learning• Begin first A2 Verse set text	<ul style="list-style-type: none">• refinement of translation skills• past translation papers• completion of both set texts – past papers

Year 12 Mathematics Curriculum 2021/22 – Edexcel 9MA0

Autumn Term	Spring Term	Summer Term
<p>Pure Mathematics:</p> <p>Unit 1 Algebraic expressions 1.1 Index laws 1.2 Expanding brackets 1.3 Factorising 1.4 Negative and fractional indices 1.5 Surds 1.6 Rationalising denominators</p> <p>Unit 2 Quadratics 2.1 Solving quadratic equations 2.2 Completing the square 2.3 Functions 2.4 Quadratic graphs 2.5 The discriminant 2.6 Modelling with quadratics</p> <p>Unit 3 Equations and inequalities 3.1 Linear simultaneous equations 3.2 Quadratic simultaneous equations 3.3 Simultaneous equations on graphs 3.4 Linear inequalities 3.5 Quadratic inequalities 3.6 Inequalities on graphs 3.7 Regions</p>	<p>Pure Mathematics:</p> <p>Unit 12 Differentiation 12.1 Gradients of curves 12.2 Finding the derivative 12.3 Differentiating x^n 12.4 Differentiating quadratics 12.5 Differentiating functions with 2 or more terms 12.6 Gradients, tangents and normal 12.7 Increasing and decreasing functions 12.8 Second order derivatives 12.9 Stationary points 12.10 Sketching gradient functions 12.11 Modelling with differentiation</p> <p>Unit 13 Integration 13.1 Integrating x^n 13.2 Indefinite integrals 13.3 Finding functions 13.4 Definite integrals 13.5 Areas under curves 13.6 Areas under the x-axis 13.7 Areas between curves and lines</p> <p>Unit 14 Exponentials and logarithms 14.1 Exponential functions 14.2 $y = e^x$ 14.3 Exponential modelling 14.4 Logarithms</p>	<p>Statistics:</p> <p>Unit 6 Statistical distributions 6.1 probability distributions 6.2 The binomial distribution 6.3 Cumulative probabilities</p> <p>Unit 7 Hypothesis testing 7.1 Hypothesis testing 7.2 Finding critical values 7.3 One-tailed tests 7.4 Two-tailed tests</p> <p>Mechanics:</p> <p>Unit 10 Forces and motion 10.1 Force diagrams 10.2 Forces as vectors 10.3 Forces and acceleration 10.4 Motion in 2 dimensions 10.5 Connected particles 10.6 Pulleys</p> <p>Unit 11 Variable acceleration 11.1 Functions of time 11.2 Using differentiation 11.3 Maxima and minima problems 11.4 Using integration 11.5 Constant acceleration formulae</p>

Year 12 Mathematics Curriculum 2021/22 (Cont'd) – Edexcel 9MA0

Autumn Term	Spring Term	Summer Term
<p>Unit 4 Graphs and transformations 4.1 Cubic graphs 4.2 Quartic graphs 4.3 reciprocal graphs 4.4 Points of intersection 4.5 translating graphs 4.6 Stretching graphs 4.7 transforming functions</p> <p>Unit 5 Straight line graphs 5.1 $y = mx + c$ 5.2 Equations of straight lines 5.3 Parallel and perpendicular lines 5.4 Length and area 5.5 Modelling with straight lines</p> <p>Unit 6 Circles 6.1 Midpoints and perpendicular bisectors 6.2 Equation of a circle 6.3 Intersections of straight line and circles 6.4 use tangent and chord properties 6.5 Circles and triangles</p> <p>Unit 7 Algebraic methods 7.1 Algebraic fractions 7.2 Dividing polynomials 7.3 The factor theorem 7.4 Mathematical proof 7.5 Methods of proof</p> <p>Unit 8 The binomial expansion 8.1 Pascal's triangle 8.2 Factorial notation 8.3 The binomial expansion 8.4 Solving binomial problems 8.5 Binomial estimation</p>	<p>14.5 Laws of logarithms 14.6 Solving equations using logarithms 14.7 Working with natural logarithms 14.8 Logarithms and non-linear data</p> <p>Statistics: Unit 1 Data collection 1.1 Populations and samples 1.2 Sampling 1.3 Non-random sampling 1.4 Types of data 1.5 The large data set</p> <p>Unit 2 Measures of location and spread 2.1 Measures of central tendency 2.2 Other measures of location 2.3 Measures of spread 2.4 Variance and standard deviation 2.5 Coding</p> <p>Unit 3 Representations of data 3.1 Outliers 3.2 Box plots 3.3 Cumulative frequency 3.4 Histograms 3.5 Comparing data</p> <p>Unit 4 Correlation 4.1 Correlation 4.2 Linear regression</p> <p>Unit 5 Probability 5.1 Calculating probabilities</p>	<p style="text-align: center;">END OF AS MATHEMATICS COURSE – INTERNAL EXAMINATIONS</p> <p style="text-align: center;">-----</p> <p>Start of A Level course Pure Mathematics (Year 2):</p> <p>Unit 1 Algebraic Methods 1.1. Proof by contradiction 1.2 Algebraic fractions 1.3 Partial fractions 1.4 Repeated factors 1.5 Algebraic division</p> <p>If time: Unit 2 Functions and modelling 2.1 Modulus function 2.2 Functions and mappings 2.3 Composite functions 2.4 Inverse functions 2.5 $y = f(x)$ and $y = f(x)$ 2.6 Combining transformations 2.7 Solving modulus problems</p>

Year 12 Mathematics Curriculum 2021/22 (Cont'd) – Edexcel 9MA0

Autumn Term	Spring Term	Summer Term
<p>Unit 9 Trigonometric ratios 9.1 The cosine rule 9.2 The sine rule 9.3 Areas of triangles 9.4 Solving triangle problems 9.5 Graphs of sine, cosine and tangent 9.6 Transforming trigonometric graphs</p> <p>Unit 10 trigonometric identities and equations 10.1 Angles in all 4 quadrants 10.2 Exact values of trigonometric ratios 10.3 Trigonometric identities 10.4 Simple trigonometric equations 10.5 Harder trigonometric equations 10.6 Equations and identities</p> <p>Unit 11 Vectors 11.1 Vectors 11.2 Representing vectors 11.3 Magnitude and direction 11.4 Position vectors 11.5 Solving geometric problems 11.6 Modelling with vectors</p>	<p>5.2 Venn diagrams 5.3 Mutually exclusive and independent events 5.4 Tree diagrams</p> <p>Mechanics: Unit 8 Modelling in Mechanics 8.1 Constructing a model 8.2 Modelling assumptions 8.3 Quantities and units 8.4 Working with vectors</p> <p>Unit 9 Constant acceleration 9.1 Displacement-time graphs 9.2 Velocity-time graphs 9.3 Constant acceleration formulae 1 9.4 Constant acceleration formulae 2 9.5 Vertical motion under gravity</p>	

Year 12 PE Curriculum 2021/22 – AQA 7582

Autumn Term	Spring Term	Summer Term
Theory	Theory	Theory
<ul style="list-style-type: none"> • Cardiovascular system • Respiratory System • Neuromuscular System • Skill, Skill Continua and Skill classification • Principles and theories of learning and performance • Use of guidance and feedback • General Information Processing • Pre-Industrial • Industrial and Post-Industrial • Post World War II • Sociological Theory applied to equal opportunities 	<ul style="list-style-type: none"> • Musculo-skeletal system and analysis of movement • Energy systems • Efficiency of information processing model • Aspects of personality • Attitudes • Aggression • Concepts of physical activity and sport • Development of elite performers in sport 	<ul style="list-style-type: none"> • Diet and nutrition • Training methods • Injury prevention and rehabilitation of injury • Arousal • Anxiety • Stress Management • Ethics in sport • Violence in sport • Drugs in sport

Year 12 Physics Curriculum 2021/22 – OCR H556

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none">• motion• forces• electric current	<ul style="list-style-type: none">• work and energy• springs and materials• momentum• quantum physics• waves	<ul style="list-style-type: none">• waves (continued)• practical skills• astrophysics and cosmology• particle physics• nuclear fission and fusion

Year 12 PSHCE Curriculum 2021/22

Autumn Term	Spring Term	Summer Term
<ul style="list-style-type: none"> • Review Study skills/Summer review • Wellbeing wheel intro to PSHCE sessions • Keran Mills from Youth Enquiry Service • Plagiarism • Online subcultures and extremism • Climate Change • Gender and Identity • Critical thinking and fake news • Careers work ethic and motivation • Honour Violence Never Acceptable example • PC1 Review • STI Clinics and advice • Money Matters 1 save Money • Class C and prescription Drugs 	<ul style="list-style-type: none"> • Careers Talk Julie Kee • Class B Drugs • Social media call out culture • Controlling relationships Never acceptable • Mrs Hagger Nutrition • PC2 Review • Sex and media • Fast Fashion Environmental • Feminism • Money Matters 2 Making most of Money • University of Essex- super curricular , Julie Kee employability Talk 	<ul style="list-style-type: none"> • Tolerating Intolerance Never acceptable • Cultural Appropriation • Effort and systems for summer assessments • Revision Strategies • Stress less • Internal Assessments • Research Jobs, personal statements/UCAS applications/student Finance • Careers apprenticeships/CV writing - Wellness day off timetable • PSHCE Evaluation revisit vision board

Year 12 Psychology Curriculum 2021/22 - Edexcel 9PSO

Autumn Term	Spring Term	Summer Term
<p>Research Methods and Skills</p> <ul style="list-style-type: none"> • Research methodology including statistical testing <p>Paper 1 – Foundations in Psychology <i>Social Psychology including:</i></p> <ul style="list-style-type: none"> • Research methods applicable to Social Psychology (Questionnaires) & related design & analysis issues • Obedience • Prejudice • Classic (Sherif) & Contemporary study (e.g. Burger) • Individual differences/ developmental psychology and obedience/ prejudice <p><i>Cognitive Psychology including:</i></p> <ul style="list-style-type: none"> • Research methods applicable to Cognitive Psychology (i.e the experimental method) & related design & analysis issues Multi-Store Model of Memory • Working Memory Model • Classic Study (Baddeley) • Case studies of brain damaged individuals – including HM • Long term memory • Reconstructive memory • Contemporary studies (e.g. Steyvers & Hemmer) <p>Individual differences/ developmental psychology and mental processing</p>	<p><i>Social Psychology including:</i></p> <ul style="list-style-type: none"> • Key question relating to Social Psychology • Practical report relating to Social Psychology (e.g. does gender affect obedience) • Issues & Debates relating to Social Psychology – Is Psychology a Science, Ethical Issues, Reductionism, Social Control, Gender Bias <p><i>Learning theories including:</i></p> <ul style="list-style-type: none"> • Classical Conditioning, Operant Conditioning, Social Learning Theory • Acquisition, maintenance and Treatment of Phobias – CC, OC, SLT, Flooding & Systematic Desensitisation • Classic (Watson & Rayner) & Contemporary studies (e.g. Becker) <p><i>Cognitive Psychology continued...including:</i></p> <ul style="list-style-type: none"> • Key question – e.g. Dementia/ Dyslexia • Practical report relating to Cognitive Psychology (e.g. is STM encoding acoustic) • Issues & Debates relating to Cognitive Psychology – e.g. is Psychology a Science, Reductionism etc <p><i>Biological psychology including:</i></p> <ul style="list-style-type: none"> • Role of the CNS , structure of neurons, function of neurotransmitters & synaptic transmission • Effect of recreational drugs on transmission process • Structure of the brain & brain functioning including scanning techniques • Classic Study (Raine) • Individual differences/ developmental psychology and mental development 	<p><i>Learning theories including:</i></p> <ul style="list-style-type: none"> • Individual and developmental influences on learning • Research methods applicable to Learning Theories (i.e. observation) & related design & analysis • Key question – relating to the Learning Approach e.g. ‘Should airline companies offer treatment for fear of flying?’ • Issues & Debates relating to the Learning approach. <p><i>Biological psychology continued...including:</i></p> <ul style="list-style-type: none"> • Role of evolution & natural selection • Role of hormones in human development • Biological & Freud’s explanation of aggression including his theory of personality • Research methods applicable to Biological Psychology (genetic studies, correlations and brain scanning) & related design & analysis issues • Contemporary Study (e.g. Brendgen) • Key question relating to Bio psychology • Practical report relating to Biological e.g. is aggression caused by nature or nurture? • Issues & Debates relating to Biological Psychology – e.g. Ethical Issues, Reductionism, Culture Bias, Is Psychology a Science

Year 12 RS: Philosophy and Ethics Curriculum 2021/22 – OCR H573

Autumn Term	Spring Term	Summer Term
<p>Philosophy of Religion</p> <ol style="list-style-type: none"> 1. Ancient philosophical influences 2. Soul, mind and body 3. Arguments based on observation 4. Argument based on reason 5. Religious experience 6. Problem of evil <p>Religious Ethics</p> <ol style="list-style-type: none"> 1. Natural Law 2. Situation Ethics 3. Kantian Ethics 	<p>Religious Ethics continued</p> <ol style="list-style-type: none"> 1. Utilitarianism 2. Euthanasia 3. Business ethics <p>Developments in Christian Thought</p> <ol style="list-style-type: none"> 1. Augustine on human nature 2. Death and the afterlife 3. Knowledge of God's existence 4. The person of Jesus Christ 5. Christian moral principles 6. Christian moral action 	<p>Exam practice and revision</p>