Year 12 Art and Design Curriculum 2023/24 – OCR H601

Autumn Term	Spring Term	Summer Term
TOPIC: SUBJECT MASTERY PORTFOLIO SKILLS DEVELOPMENT – THEMATIC WORK portraiture, still life, life drawing, landscape, abstraction, experimental imagery, narrative, installation. Key Skills: mark making/painting/drawing/ printmaking/casting/carving/photographic printing and digital manipulation/mixed media/collage • 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	TOPIC: THEMATIC PORTFOLIO PERSONAL DEVELOPMENT 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 an outcome(s). • 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.	TOPIC: THEMATIC PORTFOLIO PERSONAL 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. A final outcome is produced as a result of their study during the year 12 internal assessments in June. Key Skills: critical review and reflection/ selection/ contextual/cultural development/ assessment • 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 personal Related Study started over the summer holiday

Year 12 Biology Curriculum 2023/24 – OCR H420

Autumn Term	Spring Term	Summer Term
Module 2 • Cell structure • Biological molecules • Enzymes • Plasma membranes and cell transport • Nucleotides, nucleic acids, cell division, cell diversity and cellular organisation Module 3 • Exchange surfaces and breathing	Module 2 • Nucleotides, nucleic acids, cell division, cell diversity and cellular organisation (cont'd) Module 3 • Transport in animals • Transport in plants Module 4 • Communicable diseases	Module 3 • Transport in plants (cont'd) Module 4 • Classification and evolution • Biodiversity • Statistics for Biology Module 6 • Populations and sustainability

Year 12 Chemistry Curriculum 2023/24 – OCR H432

Autumn Term	Spring Term	Summer Term
• Atoms and Reactions 1&2 • Bonding and Structure • Electron Structure & Ionisation Energies • Group 2 • Group 7 • Periodicity	• Enthalpy Changes • Reaction rates • Basics of organic chemistry • Alkanes and alkenes • Haloalkanes and alcohols Organic synthesis • Analytical techniques	• Chemical equilibria • Exam Revision After Year 1 work is completed: • Aromatic compounds • Carbonyl compounds • Lattice enthalpy • Enthalpy and entropy
Development of practical skills throughout		

Year 12 Classical Civilisation Curriculum 2023/24 – OCR H408

Autumn Term	Spring Term	Summer Term
Greek Art • Introduction • Development of free-standing Greek sculpture [Archaic, Early Classical] **World of the Hero** • Virgil's Aeneid Books 1-4	**Greek Art** • Development of free-standing Greek sculpture [High Classical, Late Classical] • Architectural Sculpture [metopes & friezes] **World of the Hero** • Virgil's Aeneid Books 5-10	**Greek Art** • Architectural Sculpture [pediments, friezes and metopes with reference to specific temples] • Greek Vases **World of the Hero** • Virgil's Aeneid Books 11-12 • Homer's Iliad • Themes & characterisation.

Year 12 Computer Science Curriculum 2023/24 – OCR H446

Autumn Term	Spring Term	Summer Term
• 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	• 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	• 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 2023/24 – AQA 7136

Autumn Term	Spring Term	Summer Term
Microeconomics Unit **The economic problem and economic methodology** - Nature and purpose of economic activity - Scarcity choice and the allocation of resources - Production possibility diagrams ***Price determination in a competitive market*** - Demand and supply determinants - Elasticity - Interrelationships between markets - Consumer and producer surplus *Half Term* **Microeconomics Unit** **Production, costs and revenue:** - Production and efficiency - Specialisation and labour division - Law of diminishing returns - Costs of production - Economies/Diseconomies of scale **Competitive and Concentrated Markets** - Market Structures - Objectives of Firms - Competitive markets - Monopoly power - Competitive Market Process	**Microeconomics Unit** **The market mechanism, market failure and government intervention in markets:** - Price mechanism - Public, private, quasi-public goods - Market failure - Externalities - Market imperfections - Inequitable distribution of income/wealth - Merit/demerit goods - Government intervention - Government failure Test on paper 1 content and feedback **Macroeconomics Unit** Measurement of macroeconomic performance - Policy objectives - Macroeconomic indicators - Use of index numbers **How the macro economy works** - Circular flow of income - AD/AS Analysis - Aggregate demand determinants - The level of economic activity - Aggregate supply long and short run *Half Term* **Economic Performance** - Economic growth and the economic cycle - Employment/unemployment - Inflation/deflation - Current account balance and policy conflicts	**Macroeconomic policy** - Monetary policy - Fiscal policy - Supply side policies Revision for internal exam for A-Level *Half term* *A level internal exam* *Exam feedback* **Globalisation** - 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 **Paper 3 practice**

16.07.2023

Year 12 English Language Curriculum 2023/24 – AQA 7702

Autumn Term	Spring Term	Summer Term
• Introduction to language levels and mode • Sociolinguistics (region and social groups)	• Language and representation • Sociolinguistics (gender and occupation)	• Original Writing (NEA) • Language Investigation (NEA)

Year 12 English Literature Curriculum 2023/24 – OCR H472

Autumn Term	Spring Term	Summer Term
• Introduction to the *Women in Literature* genre and main text *Sense and Sensibility* by Jane Austen • *The Merchant's Prologue and Tale* by Geoffrey Chaucer	• *Twelfth Night* by William Shakespeare • *A Doll's House* by Henrik Ibsen	• *Twelfth Night* • Revision of *Sense and Sensibility* and unseen prose practise • Comparison of *A Merchant's Tale* and *A Doll's House* • Mock exams • NEA – *The World's Wife*, *The Prime of Miss Jean Brodie* and *The History Boys.*

16.07.2023

Year 12 French Curriculum 2023/24 – AQA 7652

Autumn Term	Spring Term	Summer Term
Intensive Grammar Revision and Consolidation from GCSE	Aspects of French-speaking society: current trends	Aspects of French-speaking society: current trends
Baseline Assessment	**Unit 3: The place of voluntary work**	**Unit 4: A culture proud of its heritage**
Grammar extension to AS requirements Developing Translation Skills Developing Summary Skills Speaking Spontaneously Aspects of French-speaking society: current trends	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	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
Unit 1: The changing nature of the family **Unit 2: The 'cyber-society'**		Introducing La Haine and No et Moi
Vocabulary Tests, Translations, Reading and Listening Summary, Card Discussion, End of Topic Assessment		Introducing the Individual Research project
	Vocabulary Tests, Translations, Reading and Listening Summary, Card Discussion, End of Topic Assessment	Vocabulary Tests, Translations, Reading and Listening Summary, Card Discussion, End of Topic Assessment
Cultural Capital: - Videos on Teams : - Films, Music, Social Media, Culture - Tv5.org, Netflix and YouTube - Language, Culture and Diversity Week 30 mins speaking practice with FLA 1 hour weekly study support with FLA	**Cultural Capital:** - Videos on Teams : - Films, Music, Social Media, Culture - Tv5.org, Netflix and YouTube - Language, Culture and Diversity Week 30 mins speaking practice with FLA 1 hour weekly study support with FLA	**Cultural Capital:** - Videos on Teams : - Films, Music, Social Media, Culture - Tv5.org, Netflix and YouTube - Language, Culture and Diversity Week 30 mins speaking practice with FLA 1 hour weekly study support with FLA

16.07.2023

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 *content below*, A level Further Mathematics Year 2 content taught in Year 13 2024-2025) 2023/24 – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
Pure Mathematics(AS):	**Statistics (AS):**	**Further Mechnics (AS)**
Unit 1 Algebraic expressions		**Unit 2 Work, energy and power**
1.1 Index laws	**Unit 4 Correlation**	Physics Y7/Y9/Y10
1.2 Expanding brackets	4.1 Correlation	2.1Work done
1.3 Factorising	4.2 Linear regression	2.2Kinetic and potential energy
1.4 Negative and fractional indices		2.3 Conservation of mechanical energy and the
1.5 Surds	**Unit 5 Probability**	work-energy principle
1.6 Rationalising denominators	5.1 Calculating probabilities	Physics Y7/Y10
	5.2 Venn diagrams	2.4Power
Unit 2 Quadratics	5.3 Mutually exclusive and independent events	
2.1 Solving quadratic equations	5.4 Tree diagrams	**Unit 4 Elastic collisions in one dimension**
2.2 Completing the square		Physics Y12
2.3 Functions	**Unit 6 Statistical distributions**	4.1Direct impact and Newton's law of restitution
2.4 Quadratic graphs	6.1 probability distributions	4.2Direct collision with a smooth plane
2.5 The discriminant	6.2 The binomial distribution	4.3Loss of kinetic energy
2.6 Modelling with quadratics	6.3 Cumulative probabilities	4.4Successive direct impacts
Unit 3 Equations and inequalities	**Unit 7 Hypothesis testing**	**Pure Mathematics (A level) :**
3.1 Linear simultaneous equations	7.1 Hypothesis testing	
3.2 Quadratic simultaneous equations	7.2 Finding critical values	**Unit 1 Algebraic Methods**
3.3 Simultaneous equations on graphs	7.3 One-tailed tests	1.1. Proof by contradiction
3.4 Linear inequalities	7.4 Two-tailed tests	1.2 Algebraic fractions
3.5 Quadratic inequalities	Mechanics (AS)	1.3 Partial fractions
3.6 Inequalities on graphs	**Unit 11 Variable acceleration**	1.4 Repeated factors
3.7 Regions	11.1 Functions of time	1.5 Algebraic division
	11.2 Using differentiation	
Unit 4 Graphs and transformations	11.3 Maxima and minima problems	**Unit 2 Functions and modelling**
4.1 Cubic graphs	11.4 Using integration	2.1 Modulus function
4.2 Quartic graphs	11.5 Constant acceleration formulae	2.2 Functions and mappings
4.3 reciprocal graphs		2.3 Composite functions
4.4 Points of intersection		2.4 Inverse functions
4.5 translating graphs		2.5 $y = |f(x)|$ and $y = f(|x|)$
4.6 Stretching graphs		2.6 Combining transformations
4.7 transforming functions		2.7 Solving modulus problems

16.07.2023

		Unit 3 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
		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
		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
		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)
		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

		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
		Unit 9 Differentiation
		9.1 Differentiating sin x and cos x from first principles
		9.2Differentiating exponentials and logarithms
		9.3 The chain rule
		9.4 The product rule
		9.5 The quotient rule
		Unit 12 Vectors (3D)
		12.1 3D coordinates
		12.2 Vectors in 3D
		12.3 Solving Geometric problems.
		12.4 Application to mechanics
		Unit 10 Numerical methods
		10.1 Location of roots
		10.2 Iteration
		10.3Newton-Raphson method
		10.4 Application to modelling e
		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
		11.6Integration 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

16.07.2023

	Unit 12 Vectors (3D)
	12.1 3D coordinates
	12.2 Vectors in 3D
	12.3 Solving Geometric problems
	12.4 Application to mechanics

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 *content below*, A level Further Mathematics Year 2 content taught in Year 13 2024-2025) 2023/24   (Cont'd) – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
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 **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 **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 **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	**Core Pure AS (continue)** **Unit 3 Series** 3.1 Sums of natural numbers 3.2 Sums of squares and cubes **Unit 4 Roots of polynomials** 4.1 Roots of a quadratic equation 4.2 Roots of a cubic equation 4.3 Roots of a quartic equation 4.4 Expressions relating to the roots of a polynomial**.** 4.5 Linear transformations of roots. **Unit 5 Volumes of revolution** **5**.1 Volumes revolution around the x axis 5.2 Volumes revolution around the y axis 5.3 Adding and subtracting volumes 5.4 Modelling with volumes of revolution **Unit 6 Matrices** 6.1 Introduction to matrices 6.2 Matrix multiplication 6.3 Determinants 6.4 Inverting a 2 x 2 matrix 6.5 Inverting a 3 x 3 matrix. 6.6 Solving systems of equations using matrices.	

16.07.2023

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

Unit 7 Linear Transformations
7.1 Linear transformations in 2 dimensions
7.2 Reflections and rotations
7.3 Enlargements and stretches.
7.4 Successive transformations
7.5 Linear transformations in 3 dimensions
7.6 The inverse of a linear transformation

Unit 8 Proof by induction
8.1 Proof by mathematical induction
8.2 Proving disability results
8.3 Proving statements involving matrices

Unit 9 vectors
9.1 Equation of line in three dimensions
9.2 Equation of a plane in there dimensions
9.3 Scalar product
9.4 Calculating angles between lines and planes
9.5 Points of intersection
9.6 Finding perpendiculars.

DECISION(AS)

Unit 1 Algorithms
1.1 Using/understanding algorithms
1.2 Flow charts, bubble sort, quick sort
1.3 Bin-packing algorithms
1.4 Order of an algorithm

Unit 2 Graphs and networks
2.1 Modelling with graphs
2.2 Graph theory
2.3 Special types of graph
2.4 Representing graphs/networks using matrices

| | **Unit 3 Algorithms on graphs**
3.1 Kruskal's,
3.2 Prim's,
3.3 Dijkstra's
3.4 Floyd's algorithms

Unit 4 Route inspection
4.1 Eulerian graphs
4.2 Route inspection algorithm

Unit 6 Linear programming
6.1 Linear programming probleme
6.2 Graphical methods
6.3 Locate optimum point
6.4 Solutions with integer values

Unit 8 Critical path analysis
8.1 Modelling a project
8.2 Dummy activities
8.3 Early/late event times
8.4 Critical activities
8.5 The float of an activity
8.6 Gantt (cascade) charts

Further Mechanics (AS)

Unit 1 Momentum and impulse
1.1 Momentum in one direction
1.2 Conservation of momentum | |

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 *content below*, A level Further Mathematics Year 2 content taught in Year 13 2024-2025) 2023/24 (Cont'd) – Edexcel 9FM0

YEAR 1 Autumn Term	Spring Term	Summer Term
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 **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 **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 **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		**INTERNAL A LEVEL MATHEMATICS EXAMINATION**

Year 12 Further Mathematics Curriculum (A level Mathematics year 1 *content below,* **A level Further Mathematics Year 2 content taught in Year 13 2024-2025) 2023/24 (Cont'd) – Edexcel 9FM0**

YEAR 1 Autumn Term	Spring Term	Summer Term
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 **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 **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 **Unit 3 Representations of data** 3.1 Outliers 3.2 Box plots 3.3 Cumulative frequency 3.4 Histograms 3.5 Comparing data		

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.

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
10.1 Force diagrams
10.2 Forces and vectors
10.3 Forces and acceleration
10.4 Motion in 2 dimensions
10.5 Connected particles
10.6 Pulleys

Core Pure AS
Unit 1 Complex numbers
1.1 Imaginary and complex numbers
1.2 Multiplying complex numbers
1.3 Complex conjugate
1.4 Roots of quadratic equations
1.5 Soving cubic and quadratic equations

Unit 2 Argand Diagram
2.1 Argand diagrams
2.2 Modulus and arguments
2.3 Modulus and argument form of complex numbers
2.4 Loci in the Argand diagram
2.5 Regions in the Argand diagram

Year 12 Geography Curriculum 2023/24 – AQA 7037

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

Year 12 German Curriculum 2023/24 – AQA 7662

Autumn Term	Spring Term	Summer Term
• baseline assessment • developing comprehension and writing skills • grammar revision and consolidation from GCSE • developing translation skills • speaking spontaneously **September – October** Intensive grammar revision and extension **Aspects of German Speaking Society** Family **Artistic Culture in the German-speaking World** Celebrations and traditions **November – December** **Aspects of German Speaking Society** The digital world **Artistic Culture in the German-speaking World** Art and architecture	• development of all examination skills **January – April** **Aspects of German Speaking Society** Youth culture: fashion, music and television **Artistic Culture in the German-speaking World** The cultural life of Berlin: past and present Begin studying the film **Goodbye Lenin.**	• Focus on essay writing related to the analysis of a film • Introduction of the Independent Research Project Finish studying the film **Goodbye Lenin** and develop essay writing skills Consolidation of topics studied in Year 12. Introduction of IRP (individual research project)

Year 12 History Curriculum 2023/24 – AQA 7042

Autumn Term	Spring Term	Summer Term
Consolidation of the Tudor Dynasty: England, 1485–1547 **Henry VII, 1485–1509** • 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	**Henry VIII, 1509–1547** • 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	• Economic development: trade, exploration, prosperity and depression • Religion: renaissance ideas; reform of the Church; continuity and change by 1547 NEA
Great Power rivalries and entry into war, c1890–1917 **Great Powers: Britain, Germany, France, Russia and Austria-Hungary, c1890–1900** • 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	**The Great Powers and Crises, 1900–1911** • 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	• 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 NEA

16.07.2023

Year 12 History Curriculum 2023/24 (Cont'd) – AQA 7042

Autumn Term	Spring Term	Summer Term
• 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	• Evolving alliances: the Moroccan crises; Anglo-French Entente; the formation of the Triple Entente • The decline of the Ottoman Empire: the weakening of the Empire in Eastern Europe; the causes and consequences of the Young Turk Movement • Panslavism and the Bosnian Crisis: the causes, course and consequences of the Bosnian Crisis **The coming of war, 1911–1917** • 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	
Teaching of coursework topic and sourcing of the required contemporary sources and historical debate. Preparation of research skills.	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. Planning and preparation of draft.	Examination board to approve question. Preparation for draft write up to be completed over the summer holiday.

16.07.2023

Year 12 Latin Curriculum 2023/24 – OCR H443

Autumn Term	Spring Term	Summer Term
• 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 A Level Prose text.	• consolidation of grammatical points • new Grammar – impersonal verbs, Predicative Dative • Defined vocabulary learning • Begin first A Level Verse set text	• refinement of translation skills • past translation papers • completion of both set texts – past papers

Year 12 Mathematics Curriculum 2023/24 – Edexcel 9MA0

Autumn Term	Spring Term	Summer Term
Pure Mathematics: **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 **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 **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	**Pure Mathematics:** **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 **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 **Unit 14 Exponentials and logarithms** 14.1 Exponential functions 14.2 $y = e^x$ 14.3 Exponential modelling 14.4 Logarithms	**Statistics:** **Unit 6 Statistical distributions** 6.1 probability distributions 6.2 The binomial distribution 6.3 Cumulative probabilities **Unit 7 Hypothesis testing** 7.1 Hypothesis testing 7.2 Finding critical values 7.3 One-tailed tests 7.4 Two-tailed tests **Mechanics:** **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

16.07.2023

Year 12 Mathematics Curriculum 2023/24 (Cont'd) – Edexcel 9MA0

Autumn Term	Spring Term	Summer Term
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 **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 **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 **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 **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	14.5 Laws of logarithms 14.6 Solving equations using logarithms 14.7 Working with natural logarithms 14.8 Logarithms and non-linear data **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 **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 **Unit 3 Representations of data** 3.1 Outliers 3.2 Box plots 3.3 Cumulative frequency 3.4 Histograms 3.5 Comparing data **Unit 4 Correlation** 4.1 Correlation 4.2 Linear regression Unit 5 Probability 5.1 Calculating probabilities	**END OF AS MATHEMATICS COURSE – INTERNAL EXAMINATIONS** --- **Start of A Level course** **Pure Mathematics (Year 2):** **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 **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 **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

16.07.2023

Year 12 Mathematics Curriculum 2023/24 (Cont'd) – Edexcel 9MA0

Autumn Term	Spring Term	Summer Term
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 **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 **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	5.2 Venn diagrams 5.3 Mutually exclusive and independent events 5.4 Tree diagrams **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 **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** 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	**Unit 5 Radians** 5.1Radians measures 5.2 Arc length 5.3 Areas of sectors and segment

16.07.2023

Year 12 Music Curriculum Outline 2023/24 – EDUQAS A660QS

Autumn Term	Spring Term	Summer Term
Component 1: Mock class solo performance **Component 2:** Minuet and Trio **AoSA The Western Classical Tradition** - Introduction to A Level theory and WCT harmony - Set work: *Symphony No. 104 Movement 3* by Haydn **AoSC Musical Theatre** - Composer focus: Richard Rodgers and Leonard Bernstein	**Component 1:** A Level lunchtime recital (mini mock) **Component 2:** Composition 1 (Free composition) **AoSA The Western Classical Tradition** - Development of the symphony - Early Classical, late Classical and Beethoven wider listening works - Set work: *Symphony No. 104 Movement 1* by Haydn **AoSC Musical Theatre** - Composer focus: Andrew Lloyd Webber and Stephen Sondheim	**Component 1:** Full mock recital **Component 2:** Composition 1 (Free composition) deadline **AoSA The Western Classical Tradition** - Essay writing and general listening **AoSC Musical Theatre** - Composer focus: Claude-Michel Schönberg and Stephen Schwartz **End of Year Mock Exam**

16.07.2023

Year 12 Physical Education Curriculum 2023/24 – AQA 7582

Autumn Term	Spring Term	Summer Term
Theory	Theory	Theory
- 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	- 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	- 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 2023/24 – OCR H556

Autumn Term	Spring Term	Summer Term
- motion - forces - electric current	- work and energy - springs and materials - momentum - quantum physics - waves	- waves (continued) - practical skills - astrophysics and cosmology - particle physics - nuclear fission and fusion

Year 12 PSHCE Curriculum 2023/24

Autumn Term	Spring Term	Summer Term
- Review Study skills/Summer review - Wellbeing wheel intro to PSHCE sessions and Vision Board - 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 - STI Clinics and advice - Money Matters 1 save Money - Class C and prescription Drugs	- Careers Talk - Class B Drugs - Social media call out culture - Controlling relationships Never acceptable (Self belief) - Mrs Hagger Nutrition - PC2 - Sex and Media - Fast Fashion Environmental - Feminism - Money Matters 2 Making most of Money - University of Essex – super curricular, Julie Kee employability talk	- 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

16.07.2023

Year 12 Psychology Curriculum 2023/24 - AQA 7182

Autumn Term	Spring Term	Summer Term
Introductory Research Methods • Aims and hypotheses • IVs and DVs • Hypotheses • Overview of methods • Reliability, validity and generalisability **Teacher 1 – Social Influence** • Types of conformity • Asch's research • Explanations for conformity • Conformity to social roles (Zimbardo's research) • Milgram's obedience research • Explanations of obedience • Resistance to social influence • Minority influence and social change • Research methods: Ethics, sampling, control **Social end of topic test** **Teacher 2 – Memory** • Multistore model and features of each store • Types of long term memory • Working memory model • Explanations for forgetting • Factors affecting the accuracy of eyewitness testimony • Improving the accuracy of eyewitness testimony • Research methods: Experimental method, types of experiments, experimental design **Memory end of topic test**	**Teacher 1 – Attachment** • Caregiver-infant interactions • Animal studies of attachment • Learning theory of attachment • Bowlby's monotropic theory • Ainsworth's Strange Situation research • Cultural variations in attachment • Bowlby's theory of maternal deprivation • Influence of early attachment on relationships • Research methods: Correlational research, observational technique, observational design **Attachment end of topic test** **Teacher 2 – Psychopathology** • Definitions of abnormality • Characteristics of phobias • Behavioural approach to explaining and treating phobias • Characteristics of depression • Cognitive approach to explaining and treating depression • Characteristics of OCD • Biological approach to explaining and treating OCD • Research methods: Case studies and Self report technique **Psychopathology end of topic test**	**Teacher 1 – Approaches** • Learning Approaches: Behaviourist • Learning Approaches: Social Learning • Cognitive Approach • Psychodynamic Approach • Humanistic Approach • Comparison of approaches **Teacher 2 – Biological approach and Biopsychology** • Biological Approach • Divisions of nervous system • Structure and function of neurons • Endocrine system • Fight or flight response • Localisation of function • Plasticity and functional recovery • Ways of studying the brain • Biological rhythms **Approaches and Biopsychology end of topic test**

16.07.2023

Year 12 RS: Philosophy and Ethics Curriculum 2023/24 – OCR H573

Autumn Term	Spring Term	Summer Term

OCR Religious Studies A Level H573
 	
Religious Ethics
  1. Natural Law
  2. Situation Ethics
  3. Kantian Ethics
  4. Utilitarianism
  5. Euthanasia
  6. Business ethics
	Philosophy of Religion
	
	  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
		Developments in Christian Thought
		
		  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