

Year 12 Curriculum Overview

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Psychology	VWW - Cognitive Psychology 259 Biological Psychology 259 - Research Methods, Maths	VWW - Biological Psychology 259 - Biological Psychology 259 - Research Methods, Maths	VWW - Social Psychology: Revision, Exam Practice 259 - Learning theories, Revision, Exam practice	VWW - Social Psychology: Revision, Exam Practice 259 - Learning theories, Revision, Exam practice, inferential statistical tests	VWW - Practical Investigations, Revision, Exam Practice 259 - Practical Investigations, Revision, Exam Practice, inferential statistical tests	VWW - Issues and Debates, Revision, Exam Practice 259 - Issues and Debates, Revision, Exam Practice
English Literature	Aspects of Tragedy: Othello, Tess of the D'Urbervilles, Death of Salesman - This unit allows students to explore three texts over a range of time periods and their connections to the core literary genre of tragedy.	Aspects of Tragedy: Othello, Tess of the D'Urbervilles, Death of Salesman - This unit allows students to explore three texts over a range of time periods and their connections to the core literary genre of tragedy.	Social and Political Protest: The Kite Runner, Sense of Innocence and Experience, The Handmaid's Tale - This unit allows students to explore a range of thought provoking texts and their connections to societal issues such as power, corruption and rebellion.	Social and Political Protest: The Kite Runner, Sense of Innocence and Experience, The Handmaid's Tale - This unit allows students to explore a range of thought provoking texts and their connections to societal issues such as power, corruption and rebellion.	Revision for mock exams and Begin NEA (Theory and Independent) - The NEA is designed to allow students to read widely, to choose their own texts (if appropriate) and to understand that contemporary study of literature needs to be informed by the fact that different theoretical and critical methods can be applied to the subject. Students continue to work on their NEA throughout Year 13.	Revision for mock exams and Begin NEA (Theory and Independent) - The NEA is designed to allow students to read widely, to choose their own texts (if appropriate) and to understand that contemporary study of literature needs to be informed by the fact that different theoretical and critical methods can be applied to the subject. Students continue to work on their NEA throughout Year 13.
Maths	Pure Unit 1 - Algebraic expressions Pure Unit 2 - Quadratics Pure Unit 3 - Equations and inequalities Pure Unit 4 - Graphs and transformations Pure Unit 5 - Straight line graphs Pure Unit 11 - Vectors Applied Unit 1 - Data collection Applied Unit 2 - Measures of location and spread	Applied Unit 8 - Modelling in mechanics Applied Unit 9 - Constant acceleration Pure Unit 3 - Trigonometric ratios Applied Unit 3 - Representations of data Applied Unit 4 - Correlation Pure Unit 8 - Binomial expansion Pure Unit 7 - Algebraic methods	Pure Unit 10 - Trigonometric identities and equations Pure Unit 12 - Differentiation Applied Unit 5 - Probability Applied Unit 6 - Statistical diagrams	Pure Unit 6 - Circles Applied Unit 10 - Forces and motion Applied Unit 7 - Hypothesis testing	Applied Unit 11 - Variable acceleration Pure Unit 13 - Integration Pure Unit 14 - Exponentials and logarithms START YEAR 2 WORK Applied Unit 5 - Forces and friction Pure Unit 1 - Algebraic methods	Pure Unit 4 - Binomial Expansion Applied Unit 1 - Regression, correlation and hypothesis testing
Further Maths	Core Unit 1 Complex numbers Core Unit 2 Matrices Core Unit 3 Complex numbers part 2 Decision Unit 1 Algorithms and graph theory	Core Unit 2 Matrices Core Unit 3 Complex numbers part 2 Core Unit 4 Series Core Unit 5 Algebra and Functions Decision Unit 2 Algorithms on graphs 1	Core Unit 2 Matrices Core Unit 7 Vectors Core Unit 6 Proof Core Unit 8 Calculus Decision Unit 2 Algorithms on graphs 1 Decision Unit 3 Algorithms on graphs 2 Decision Unit 4 Linear programming part 1 Mechanics Unit 1 Momentum and impulse part 1 Mechanics Unit 2 Work, energy and power	Core Unit 7 Vectors Core Unit 8 Calculus Core Unit 1 Complex numbers (year 2) Core Unit 2 Hyperbolic functions (year 2) Decision Unit 4 Linear programming Decision Unit 5 Critical path analysis Mechanics Unit 2 Work, energy and power Mechanics Unit 3 Elastic collisions in one dimension	Core Unit 1 Complex numbers (year 2) Core Unit 2 Hyperbolic functions (year 2) Decision Unit 1 Complex numbers (year 2) Decision Unit 5 Critical path analysis Mechanics Unit 4 Momentum and impulse Decision Unit 7 Algorithms on graphs 1 part 2	Core Unit 1 Complex numbers (year 2) Core Unit 2 Hyperbolic functions Decision Unit 5 Critical path analysis Decision Unit 6 Algorithms and graph theory part 2 Decision Unit 7 Algorithms on graphs 1 part 2
Biology	Biological Molecules, different types of biological molecules and functions Exchange - features of exchange surfaces in different animals	Nucleic acids, Mass transport, heart and lungs, haemoglobin and functions.	Cell Structure, eukaryotic DNA genes and functions and Protein synthesis Transcription and translation	Transport across membranes DNA genes and Protein synthesis, Transcription and translation	Cell recognition and the immune system, features of the immune system Genetic diversity Biodiversity	Mock exams revision and upgrade
Chemistry	Atomic structure - Mass spectrometry calculations. Time of Flight Spectrometer, the history and structure of an atom. amount of substance including mole and titration calculations and a required practical. Intro to organic chemistry nomenclature, skeletal formulas and geometric isomerism.	Bonding and Energetics. Types of bonding, shapes of molecules and specific intermolecular forces. Alkanes - nomenclature, reactions and crude oil. Halogenoalkanes their formation and reactions, including nucleophilic substitution and elimination reactions. Alkenes their reactivity and uses, including electrophilic addition reactions	Kinetics and equilibria. Le chatelier principle and a required practical. Alcohols classification, nomenclature and reactivity. Includes condensation (partial and fully) with a required practical, and organic analysis- Looking at testing for the main functional groups. Required practical investigation.	Oxidation, reduction and redox Group 7 - Reactions of group 7 and reasons behind this.	Thermodynamics, Kinetics; looking at rate of reactions in detail by determining orders of reactants and overall orders of equations. Determining the rate determining step. Required practical, Equilibrium constant Electrode potentials, Acids bases and buffers; pH of strong and weak acids and bases. The ionic product of water and buffer solutions- what are they? How do we calculate them.	Thermodynamics, Kinetics; looking at rate of reactions in detail by determining orders of reactants and overall orders of equations. Determining the rate determining step. Required practical, Equilibrium constant Electrode potentials, Acids bases and buffers; pH of strong and weak acids and bases. The ionic product of water and buffer solutions- what are they? How do we calculate them.
Physics	Constituents of the atom. Proton, neutron, and electron, charge and mass. radiation, to include the neutrino as lepton/energy conservation requirement. Particle zoo, with conservation of lepton number and baryon number. Motion in a straight line including uniform acceleration, with motion graphs. Projectile motion in two dimensions. Energy, work and power	Conservation, or otherwise, of strangeness. Use of Feynman diagrams. Particle nature of light, with photoelectric effect. De Broglie's suggestion of particle waves. Use of quantum ideas to explain frequency of emitted light from atoms/electrons. Dynamics and Newton's Laws. Momentum in terms of N1L. Moments and equilibrium. Energy conservation. Materials, density, Hooke's Law, and the Young Modulus	Progressive and stationary wave. Use of wave equation. Superposition and formation of stationary waves. Characteristics of lamp, diode, LDR, thermistor, and resistor.	Refraction, diffraction and interference. Diffraction using a laser. Detail of refraction at a plane surface. Total internal reflection. Resistivity of a conductor. Resistance in parallel and series. Use of potential divider. EMF and internal resistance of a cell	Refraction, diffraction and interference. Diffraction using a laser. Detail of refraction at a plane surface. Total internal reflection. Resistivity of a conductor. Resistance in parallel and series. Use of potential divider. EMF and internal resistance of a cell	Circular motion. Simple Harmonic Motion. Gravitational fields
Physical Education	Socio Cultural - Modern Sport Skill Acquisition - Classification of Skill. Practice methods, Transfer of skills A+P - Musculo-Skeletal System	Socio Cultural - Modern Sport Skill Acquisition - Theories of learning. Stages of learning Cardiovascular system	Socio Cultural - Ethics Skill Acquisition - Guidance, Feedback, Memory models A+P - Respiratory system	Socio Cultural - Ethics Sports Psychology - individual differences A+P - Energy systems	Socio Cultural - Commercialisation Sports Psychology - individual differences A+P - Environmental factors and recovery	Socio Cultural - Commercialisation A+P - Physical Training Sports Psychology - individual differences
BTEC Sport	Unit 1: LAA - Skeletal System Unit 3: LAA - Career opportunities.	Unit 1: LAB - Muscular System Unit 3: LAA - Career opportunities	Unit 1: LAC - Respiratory System Unit 3: LAB - Skills audit	Unit 1: LAD - Cardiovascular System Unit 3: LAC - Recruitment	Unit 1: LAE - Energy Systems Unit 3: LAD - Reflection	Unit 1: Exam Unit 3: LAD - Reflection
Geography	Human - Urban Environments Physical - water and carbon cycles	Human - Urban Environments Physical - water and carbon cycles	Human - Urban Environments Physical - water and carbon cycles	Human - Urban Environments Physical - water and carbon cycles	Human - Global Governance Physical - Coasts .	Human - Global Governance Physical - Coasts .
History	Making of Modern Britain 1945-51 including the post war political context - Tsarist and Communist Russia Geography of Russia and the reign of Alexander II	Making of Modern Britain 1951-64 Thirteen years of Conservatism - Tsarist and Communist Russia - The reigns of Alexander II and Nicholas II	Making of Modern Britain - Transition to modernity and scandal - Tsarist and Communist Russia - Opposition to the Tsarist regime and radical groups	Making of Modern Britain - Swinging 60s 1964-70 - Tsarist and Communist Russia - The impact of the First World War on Russia and the Provisional Government	Making of Modern Britain - From Heath to Wilson - Tsarist and Communist Russia - The events of the Russia revolution and the establishment of the Bolshevik dictatorship	Making of Modern Britain - The end of consensus - Tsarist and Communist Russia - The Communist dictatorship and the emergence of Stalin
Sociology	Families & Households Theories of the family - JS Couples - LT Childhood - JS Demography - LT Changing family patterns - LT	Families & Households Family Diversity - JS Families and social policy - LT	Education Class Differences - internal JS Class Differences - external JS Gender - LT The role of education - LT	Education Ethnic differences - JS Education policy - LT	Research Methods	Methods in Context / Theory & Methods
BTEC Business	Unit 1(A+B) - Explore the features of two contrasting businesses and to investigate how businesses are organised.	Unit 1(CD) - Examine the environment in which businesses operate and examine business markets.	Unit 1(E) - Investigate the role and contribution of innovation and enterprise to business success, set 2(A) - Introduction to the principles and purposes of marketing that underpin the creation of a rationale for a marketing campaign.	Unit 2 (B) - Using information to develop the rationale for a marketing campaign, including the use of the product life cycle.	Unit 2 (C) - Planning and developing a marketing campaign to include the use of the marketing mix (7Ps).	Unit 3 (AB) - Understand the importance of managing personal finance and explore the personal finance sector.
BTEC Health & Social Care	Unit 1 LAA - LAA: Human growth and development through the life stages LAB - Factors affecting human growth and development	Unit 1 LAC - Effects of ageing	Unit 1 LAA - Examine principles, values and skills which underpin meeting the care and support needs of individuals. Unit 1 LAA - AS - The roles of people who work in health and social care settings LAA - AS2 - The responsibilities of people who work in health and social care settings	Unit 1 LAA - Examine the ethical issues involved when providing care and support to meet individual needs. Unit 2 LAA - AS - Specific responsibilities of people who work in health and social care settings (LAA - AS2 - The roles of people who work in health and social care settings LAA - AS3 - Monitoring the work of people in health and social care settings	Unit 1 LAC - Investigate the principles behind enabling individuals with care and support needs to overcome challenges. Unit 2 LAA - AS - The roles of organisations in providing health and social care services AS2 - Issues that affect access to services AS3 - Responsibilities of organisations towards people who work in health and social care	Unit 1 LAC - Investigate the principles behind enabling individuals with care and support needs to overcome challenges. Unit 2 LAA - AS - Work organisations represent interests of service users LAA - AS2 - The roles of organisations that regulate and inspect health and social care services AS3 - Responsibilities of organisations towards people who work in health and social care
Media	Introduction to Media Music Videos - LT Advertising - OC	Film - LT Advertising / Unseen - OC	Newspapers - LT Gaming - OC	Newspapers - LT NEA - OC (TV Les Revanants)	Radio - LT NEA - OC	NEA / Mock prep - LT NEA - OC
BTEC Art & Design	Unit 12 Fine Art, Materials, Techniques and Processes, Artist Specimen container	Unit 12 Fine Art, Materials, Techniques and Processes, Artist Specimen container	Unit 1: Visual Recording and Communication. Externally set unit	Unit 1: Visual Recording and Communication. Externally set unit	Unit 12 Fine Art, Materials, Techniques and Processes, Artist Specimen container	Unit 12 Fine Art, Materials, Techniques and Processes, Artist Specimen container
BTEC Performing Arts	Unit 2: Developing skills and techniques for live performance	Unit 1: Investigating practitioners' work & Unit 2: Developing skills and techniques for live performance.	Unit 2: Developing skills and techniques for live performance	Unit 2: Developing skills and techniques for live performance	Unit 2: Developing skills and techniques for live performance	Unit 2: Developing skills and techniques for live performance
BTEC Travel & Tourism	Unit 1: The World of Travel and Tourism Visitor Attractions Unit 9:	Unit 2: The World of Travel and Tourism Visitor Attractions Unit 9:	Unit 2: The World of Travel and Tourism Visitor Attractions Unit 9:	Unit 2: The World of Travel and Tourism Visitor Attractions Unit 9:	Unit 3: Principles of Marketing Unit 1: Revision and exam prep Unit 2:	Unit 3: Principles of Marketing Unit 2: Global Destinations Unit 1: