

Year 12 Curriculum Overview

Subject	Autumn 1	Autumn 2	Spring 1	Spring 2	Summer 1	Summer 2
Psychology	<p>Paper 1: Memory Memory processes, Multi-Store model of memory, types of long-term memory, working-memory model, explanations for forgetting, factors affecting EWT and improving the accuracy of EWT</p>	<p>Paper 2: Research Methods Experimental method, observational techniques, self-report techniques, correlations, content analysis and case studies Paper 2: Approaches: Learning approaches, Cognitive approach, Biological approach, Humanistic approach, Psychodynamic approach and comparison of approaches</p>	<p>Paper 1: Psychopathology: Definitions of abnormality, behavioural emotional and cognitive characteristics of OCD, phobias and depression, behavioural approach to explaining and treating phobias, cognitive approach to explaining and treating depression and biological approach to explaining and treating OCD</p>	<p>Paper 1: Social Influence Types and explanations of conformity, conformity to social roles, explanations for obedience including situational and dispositional, explanations of resistance to social influence, minority influence and social change</p>	<p>Paper 1: Attachment Caregiver-infant interactions in humans, stages of attachment, multiple attachments and role of the father, animal studies, explanations of attachment, Ainsworth's strange situations, cultural variations in attachment, Bowlby maternal deprivation, Romanian orphan studies and the influence of early attachments</p>	<p>Paper 2: Biopsychology Divisions of the nervous system, structure and function of neurons including synaptic transmission, endocrine system, localisation of function including lateralisation and split-brain research, ways of studying the brain, biological rhythms and the effect of endogenous pacemakers and exogenous zeitgebers on the sleep/wake cycle</p>
English Literature	<p>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.</p>	<p>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.</p>	<p>Social and Political Protest: The Kite Runner, Songs 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.</p>	<p>Social and Political Protest: The Kite Runner, Songs 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.</p>	<p>Revision for mock exams and Begin NEA (Theory and Independence): - 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.</p>	<p>Revision for mock exams and Begin NEA (Theory and Independence): - 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.</p>
Maths	<p>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</p>	<p>Applied Unit 8 - Modelling in mechanics Applied Unit 9 - Constant acceleration Pure Unit 9 - Trigonometric ratios Applied Unit 3 - Representations of data Applied Unit 4 - Correlation Pure Unit 8 - Binomial expansion Pure Unit 7 - Algebraic methods</p>	<p>Pure Unit 10 - Trigonometric identities and equations Pure Unit 12 - Differentiation Applied Unit 5 - Probability Applied Unit 6 - Statistical diagrams</p>	<p>Pure Unit 6 - Circles Applied Unit 10 - Forces and motion Applied Unit 7 - Hypothesis testing</p>	<p>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</p>	<p>Pure Unit 4 - Binomial Expansion Applied Unit 1 - Regression, correlation and hypothesis testing</p>
Biology	<p>Biological Molecules, different types of biological molecules and functions.</p>	<p>Cells: structure of prokaryote and eukaryote cells, methods of studying cells, transport across cells.</p>	<p>Organisms exchange substances with their environment; surface area to volume ratio, gas exchange, digestion/absorption.</p>	<p>Mass transport in plants and animals. Genetic information, variation and relationships; DNA, genes and chromosomes, DNA and</p>	<p>Species taxonomy, biodiversity with the community, investigating biodiversity. Mock exams revision.</p>	<p>Mock exams revision and upgrade</p>
Chemistry	<p>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.</p>	<p>Bonding and Energetics. Types of bonding, shapes of molecules and specific intermolecular forces. Alkanes - nomenclature, reactions and crude oil. Halogenalkanes their formation and reactions, including nucleophilic substitution and elimination reactions. Alkenes their reactivity and uses, including electrophilic addition reactions</p>	<p>Kinetics and equilibria. Le chatelier principle and a required practical. Alcohols classification, nomenclature and reactivity. Includes oxidation (partial and fully) with a required practical, and organic analysis- Looking at testing for the main functional groups. Required practical investigation,</p>	<p>Oxidation, reduction and redox Group 7 - Reactions of group 7 and reasons behind this.</p>	<p>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.</p>	<p>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.</p>
Physics	<p>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. Vectors and scalars. Balanced forces. Moments and stability. Equilibrium. Speed and velocity. Acceleration. Motion along a straight line. Free fall. Motion graphs. Projectile motion. Waves and</p>	<p>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 Nii. Moments and equilibrium. Energy conservation. Materials, density, Hooke's Law, and the Young Modulus. Newton's laws of motion. Force and acceleration. Terminal velocity. Forces on vehicles. Vehicle safety. Momentum and impulse.</p>	<p>Progressive and stationary wave. Use of wave equation. Superposition and formation of stationary waves. Characteristics of lamp, diode, LDR, thermistor, and resistor. Power. Energy and efficiency. Density. Springs. Deformation of solids. Stress and strain. Current and charge. Stationary waves on strings. Oscilloscopes.</p>	<p>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. Potential difference and power. Resistance. Components and their characteristics. Circuit rules. Reflection. Refraction. Total internal reflection.</p>	<p>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. Electromotive force and internal resistance. The potential divider. Inside the atom. Stable and unstable nuclei. Double slit interference. Diffraction.</p>	<p>Circular motion. Simple Harmonic Motion. Gravitational fields. Photons. Particles and anti-particles. Particle interactions. The particle zoo. Particle sorting. Leptons. Quarks and anti-quarks. Conservation rules. The photoelectric effect. Collisions of electron with atoms. Energy levels in atoms. Spectra. Wave particle duality. Diffraction. The diffraction grating.</p>
Physical Education	<p>Socio Cultural - Modern Sport Skill Acquisition - Classification of Skill, Practice methods, Transfer of skills A+P - Musculo-Skeletal System</p>	<p>Socio Cultural - Modern Sport Skill Acquisition - Theories of learning, Stages of learning Cardiovascular system</p>	<p>Socio Cultural - Ethics Skill Acquisition - Guidance, Feedback, Memory models A+P - Respiratory system</p>	<p>Socio Cultural - Ethics Sports Psychology - Individual differences A+P - Energy systems</p>	<p>Socio Cultural - Commercialisation Sports Psychology - Individual differences A+P - Environmental factors and recovery</p>	<p>Socio Cultural - Commercialisation A+P - Physical Training Sports Psychology - Individual differences</p>
BTEC Sport	<p>Unit 1: LA4 - Skeletal System Unit 3: LA4 - Career opportunities.</p>	<p>Unit 1: LA5 - Muscular System Unit 3: LA4 - Career opportunities</p>	<p>Unit 1: LA6 - Respiratory System Unit 3: LA5 - Skills audit</p>	<p>Unit 1: LA7 - Cardiovascular System Unit 3: LA6 - Recruitment</p>	<p>Unit 1: LA8 - Energy Systems Unit 3: LA7 - Reflection</p>	<p>Unit 1: Exam Unit 3: LA8 - Reflection</p>
Geography	<p>Human - Urban Environments Physical - water carbon cycles</p>	<p>Human - Urban Environments Physical - water and carbon cycles</p>	<p>Human - Urban Environments Physical - water and carbon cycles</p>	<p>Human - Urban Environments Physical - water and carbon cycles</p>	<p>Human - Global Governance Physical - Coasts .</p>	<p>Human - Global Governance Physical - Coasts .</p>
History	<p>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</p>	<p>Making of Modern Britain 1951-64 Thirteen years of Conservatism = Tsarist and Communist Russia - The reigns of Alexander II and Nicholas II</p>	<p>Making of Modern Britain - Transition to modernity and scandal - Tsarist and Communist Russia - Opposition to the Tsarist regime and radical groups</p>	<p>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</p>	<p>Making of Modern Britain - From Health to Wilson - Tsarist and Communist Russia - The events of the Russia revolution and the establishment of the Bolshevik dictatorship</p>	<p>Making of Modern Britain - The end of consensus - Tsarist and Communist Russia - The Communist dictatorship and the emergence of Stalin</p>
Sociology	<p>Families & Households Theories of the family - LT Couples - LT Childhood - LT Demography - LT Changing family patterns - LT</p>	<p>Families & Households Family Diversity - LT Families and social policy - LT</p>	<p>Education Class Differences - internal LT Class Differences - external LT Gender - LT The role of education - LT</p>	<p>Education Ethnic differences - LT Education policy - LT</p>	<p>Research Methods</p>	<p>Methods in Context / Theory & Methods</p>
BTEC Business	<p>Unit 1 (AB) - Explore the features of two contrasting businesses and to investigate how businesses are organised.</p>	<p>Unit 1 (CD) - Examine the environment in which businesses operate and examine business markets.</p>	<p>Unit 1 (E) - Investigate the role and contribution of innovation and enterprise to business success. nit 2 (A) - Introduction to the principles and purposes of marketing that underpins the creation of a rationale for a marketing campaign</p>	<p>Unit 2 (B) - Using information to develop the rationale for a marketing campaign, including the use of the product life cycle.</p>	<p>Unit 2 (C) - Planning and developing a marketing campaign to include the use of the marketing mix (7Ps).</p>	<p>Unit 3 (AB) - Understand the importance of managing personal finance and explore the personal finance sector.</p>

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 5 LAA - Examine principles, values and skills which underpin meeting the care and support needs of individuals. Unit 2: LAA - A3 The roles of people who work in health and social care settings LAA - A2 The responsibilities of people who work in health and social care settings	Unit 5 LAB - Examine the ethical issues involved when providing care and support to meet individual needs. Unit 2 - LAA - A3 Specific responsibilities of people who work in health and social care settings A4 - Multidisciplinary working in the health and social care sector A5 - Monitoring the work of people in health and social care settings	Unit 5 LAC - Investigate the principles behind enabling individuals with care and support needs to overcome challenges Unit 2 LAB - B1 The roles of organisations in providing health and social care services B2 - Issues that affect access to services	Unit 5 LAC - Investigate the principles behind enabling individuals with care and support needs to overcome challenges Unit 2 LAB - B3 Ways organisations represent interests of service users B4 - The roles of organisations that regulate and inspect health and social care services B5 - Responsibilities of organisations towards people who work in health and social care settings
Media	Introduction to Media Music Videos - LT Advertising - LT	Film - LT Advertising / Unseen - LT	Newspapers - LT Gaming - LT	Newspapers - LT NEA - LT	Radio - LT NEA - LT	NEA / Mock prep - LT NEA - LT
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	
BTEC Travel & Tourism	Unit 1: The World of Travel and Tourism 9: Visitor Attractions	Unit 2: The World of Travel and Tourism 9: Visitor Attractions	Unit 2: The World of Travel and Tourism 9: Visitor Attractions	Unit 2: The World of Travel and Tourism 9: Visitor Attractions	Unit 3: Principles of Marketing Unit 1: Revision and exam prep	Unit 3: Principles of Marketing Unit 2: Global Destinations