

Curriculum Overview

Academic Year: **2017 - 2018**

Year: **12**



Subject	Term 1	Term 2	Term 3
English Literature	<p>Reading: Prose: The novel <i>The Namesake</i> – discussion of cross-cultural themes in literature, dynamic characters, etc. Poetry: selected poetry of Robert Frost; key concepts of genre, form, structure, and conventions; sonnets, ballad, contemporary free verse; also poetry terminology.</p> <p>Writing: Writing structure -- outlining your thoughts. Critical and analytical writing.</p> <p>Speaking & Listening: Activities related to poetry; group discussions of novel and poems</p> <p>Prep for AS exam -- Past Exam Papers</p>	<p>Reading: Drama: <i>Twelfth Night</i> by William Shakespeare. Discussion of character, dialogue, dramatic structure, setting and staging, themes, use of language, and role of audience. Poetry: sonnets, ballad, contemporary free verse.</p> <p>Writing: Essays on character development, distinctive language features, impact on play's major themes, etc.</p> <p>Speaking & Listening: Activities related to the play; group discussions of play</p> <p>Prep for AS exam -- Past Exam Papers</p>	<p>Reading: Drama: <i>Sweet Bird of Youth</i> by Tennessee Williams. Discussion of character, dialogue, dramatic structure, setting and staging, themes, use of language, and role of audience; also, historical background, social issues, and narrative style.</p> <p>Writing: Essays on character development, distinctive language features, impact on play's major themes, etc.</p> <p>Speaking & Listening: Activities related to the play; group discussions of play</p> <p>Prep for AS exam -- Past Exam Papers</p>
Mathematics (Pure Math)	Algebraic processes leading to study of Functions (including the Quadratic Function), Coordinate Geometry, Circular Measure, Binomial Theorem; APs and GPs, Trigonometry, Vectors and Differential Calculus.	Integral calculus (definite, proper and improper integrals); Applications of integration to areas and volumes of revolution. Revision will start, followed by Mock examinations. The revision programme will continue after the Mock exams to prepare the students for the final exams.	Intensive revision using various sources especially past exam paper questions under exam conditions.
Mathematics (Statistics)	Representation of data, involving stem-and-leaf diagrams, histograms, cumulative frequency graphs, box plots, measures of location and dispersion; Permutations and Combinations; Probability; Discrete Random Variables; The Binomial distribution.	The Normal distribution and begin to Review the whole curriculum followed by Mock examinations. The revision programme will continue after the Mock exams to prepare the students for the final exams.	Intensive revision using various sources especially past exam paper questions under exam conditions.
Physics	<p>Mechanics The topic looks at motion in 2 dimension, forces and energy. We will also look at the deformation of solids.</p> <p>Electricity</p>	<p>Particle and Nuclear Physics This topic covers the standard model of particle Physics with a more in depth treatment of radioactive decay</p>	Exams – In term 3 Students will be sitting their external exams



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	<p>This topic looks at Kirchhoff's laws and practical circuits, including a treatment of internal resistance</p> <p>Waves</p> <p>This topic looks at the process of superposition and interference of waves.</p>		
Chemistry	<p>During this term students will study formulae, equations and amounts of substances, atomic structure, bonding and structure, shapes of molecules and ions and intermolecular forces. States of matter including nanoparticles, Enthalpy changes including Hess' Law and cycles and calculations based on the cycles. Organic Chemistry which includes nomenclature and isomerism in Organic Chemistry, Alkanes, Alkenes, Haloalkanes and Alcohols.</p>	<p>In this term students will study redox reactions and oxidation numbers, equilibrium including calculations involving Kc and Kp. Rates of reaction, Periodicity, the physical properties and reaction of Group 2 and 17 elements, and Nitrogen and Sulphur, including the Haber and Contact Process.</p>	<p>During term three students spend working on the practical skills for the AS examination and general revision for the written AS exam.</p>
ICT	<p>ICT systems including portable communication devices, how organisations use ICT–Part1-uses of different software and hardware in all types of organisations</p>	<p>Impact of ICT on society–Part1 of home-based ICT applications, the effects of the use of online services on society</p>	<p>Systemslifecycle (as introducing a new system or upgrading an existing system in a typical ICT application)</p>
History	<p>Students study a combination of stimulating topics in American History from 1840-1941. They basically look at the developments across 100 years and how the USA has transitioned from a fledgling country to a global superpower. The emphasis is on both looking at wide-ranging causes and thinking analytically about issues in the different themes. Themes explored include the source based component 'The Origins of the Civil War, 1846–1861'. Students also study the 'The expansion of US power from the 1840s to the 1930s' as well as 'Civil War and Reconstruction, 1861–1877'. Source evaluation techniques and extended writing skills are emphasized.</p>	<p>Students continue to explore other themes in American history including 'The Gilded Age and the Progressive Era, from the 1870s to the 1920s'. They also study a variety of topics under the theme 'The Great Crash, the Great Depression and the New Deal, from the 1920s to 1941'. Practice on source evaluation techniques and extended writing skills continue.</p>	<p>Revision leading to the final exams using past papers and stressing exam techniques. Emphasis on a "one to one" consultation process.</p>



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Geography	The students are introduced to the hydrological cycle as it applies to drainage basins. They focus on terminology and processes operating within drainage basins as well as studies involving the influence of weather and climate.	The students cover elementary plate tectonics, slope processes and development. They also undertake a critical appreciation of population-versus-resource relationships. The role of technology and innovation in resource development is also reviewed.	The focus is on migration as a component of population change including rural-urban and urban-rural movements. The process of urbanisation in LEDCs and MEDCs as well as counterurbanisation and re-urbanisation are extensively covered in case studies.
Biology	The students will study Cell structure, Membranes, Biological Molecules, Enzymes, Transport in Mammals, Gas Exchange/Smoking, Transport in Plants: an understanding of the structure and function of the various organelles which is related to the biological molecules that they are made up of. Understanding how enzymes make and modify molecules carried around animals and plants in their transport systems. Also the effects of smoking on the transport and exchange of oxygen and carbon dioxide.	Infectious Disease and Immunity , including how the body defends itself through the production of antibodies and the effects of vaccination. Cellular Division in Mitosis and how Nucleic acids are involved in Protein production during the process of immunity and mitosis.	During term three students spend working on the practical skills for the AS examination and general revision for the written AS exam.
French	Human relationships/family/generation gap/young people, Patterns of daily life/urban and rural life/the media/food and drink/law and order/philosophy and belief/health and fitness.	Work/leisure, equality of opportunity, employment/unemployment, sport, free time, travel/tourism, education, cultural life/heritage, war/peace, medical advances, environment.	Political, social, regional issues of the country where the language is spoken. Revision.
Art	Introduction to AS Level Art and Design: detailed discussions of assessment objectives and individual motivation required for the course. Commencement of one extended coursework unit of work. Initial theme will either be set by teacher, or agreed with student. Initial observational work should develop into personal interpretation and response to the theme, developing increased student ownership.	Externally set AS Level exam and continuation of coursework preparations.	Selection and refinement for the production of final coursework ready for assessment.
Physical Education	Physiology and Anatomy How the body works and how we apply it to sporting movements.	Sports Psychology. How the mind thinks and how we apply it to sporting movements.	Sports in Society. How we work together. Play, recreation and leisure.



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	Skeletal and muscular systems. Cardio-respiratory systems. Health, fitness, training, fitness testing and training programmes. Energy systems.	Motivation, skills and abilities. Aggression. Information processing. Memory. AS PE Coursework.	Olympics, governing bodies and drugs in sport. History and development of sport internationally. Minority groups in sport.
Economics	<p>In the first year of taking an AS level of CIE, pupils are required to cover seven units.</p> <p>Unit one is focusing on the basic economic ideas in general terms. Pupils are expected to understand how money functions, that resources are scarce and wants are unlimited and what is economics all about.</p> <p>Unit two consists of the price system and the theory of firm which talks about demand/ supply and price elasticity and surplus.</p> <p>Unit three is all about analyzing the government's intervention in the economy and its effects.</p> <p>These units are assessed through class exams and past papers.</p>	<p>During term two, students have to complete another three units.</p> <p>The fourth unit is concerned with international trade.</p> <p>The fifth unit is about theory and measurement in the macro-economy, including aspects of employments statistics, money and real data, aggregate supply and demand.</p> <p>The sixth unit consists of macroeconomic problems such as Inflation, balance of payments and fluctuations in foreign exchange.</p> <p>All the units are assessed through a variety methods including summative through class exams and past papers.</p>	<p>Throughout the final term of AS, the last unit of the syllabus needs to be completed.</p> <p>The final unit is concerned with macroeconomic policies, including policies to correct balance of disequilibrium and conflicts between policies.</p> <p>This unit is assessed through class exam and past papers.</p> <p>Following the completion of the core syllabus individuals are required to cover all the syllabus again through revision, recapping terms and definitions and applying understanding of those in a variety of situations that will enhance exam skills.</p> <p>Additionally, past papers, mark schemes and examiners reports will be used to equip them with exam writing skills.</p>
Business Studies	Students are introduced to the nature of business enterprises created to combat the economic problem. They then learn how to do primary and secondary market research.	The 'marketing mix' and the introduction to 'people in organisations' are the topics of this term.	Students cover all steps of the recruitment process and then proceed to 'operations and project management'.

