

Curriculum Overview

Academic Year: **2010 - 2011**

Year: **10**



Subject	Term 1	Term 2	Term 3
English and English Literature	Study 'Of Mice and Men'. Skimming, locating details, summarising, recognising themes, symbols and analysing language. Literature cwk essay and descriptive/narrative writing for language cwk. Writing/Speaking to argue/persuade/advise. Analysis and use of rhetorical devices, speech writing and delivery.	Study 'Much Ado about Nothing'. Characterisation, role play exercises, film analysis and comparison, setting, context, stagecraft, language features, empathy literature cwk	Study set poems. Thematic links, poetic devices, wider reading of a range of poetic forms from various eras and cultures. Media analysis (Newspaper/Advertising/Film) Cwk response to a text.
Mathematics	Time in 12- and 24-hour systems. Number types, sets to Venn diagrams. Percentages, algebraic representations and formula transformations. Graph work, ratio and direct proportion; sequences and introduction to probability. Personal and household finance	Algebraic processes and formula including solution of equations. Limits of accuracy, graphs in practical situations, ratio, proportion and rate. Graph work, mensuration in 2-D, locus, and variation.	Probability, lines & angles. Constructions & transformation of formulae then study of quadratic equations, linear inequalities and graphs of various curves. Lastly, continue with mensuration and bearings. Pythagoras' theorem and trigonometry.
Physics	Length and time, Mass and weight, Density, Scalars and Vector quantities, Effects of force, Hooke's law and Pressure. Centre of mass, Conditions of equilibrium, Speed, velocity and acceleration. Circular motion. Scalar and vector quantities.	Work, energy and power. Pressure in liquids. Manometers and pressure gauges. Molecular model, evaporation, pressure changes. Thermal expansion, measurement of temperature, thermal capacity, melting and boiling.	Thermal transfer. Wave properties: definitions of terms. Reflection, refraction and diffraction. Light: lenses, critical angle and refractive index. Sound: longitudinal waves, echo.
Chemistry	The Particulate nature of matter-evidence for the kinetic theory of matter. Measurement, criteria of purity and purification. Atoms, elements and compounds and types of bonding.	The mole concept: Stoichiometry and calculating quantities. Electrolysis and its applications in metal extraction. Chemical changes and speeds of reactions. Reversible reactions	Redox reactions. Acids and bases and salts. Types of oxides. Preparation of soluble and insoluble salts. identification of ions and 'Gases'.
ICT	Information and communication Technology, Components of a computer system, inputs and output devices, storage devices and media, computer networks, communication (Internet and Email), database software(data analysis), document production.	Data types, the effects of using information and communication technology, spreadsheet software (data manipulation and analysis) presentation authoring software.	The ways in which information is used, web authoring software, desktop publishing software (DTP), integration (use of all application program looked and a variety of sources to find solutions).
History	First World War looking at its causes and the Peace Treaties at the end of the war. Examining the effects of the peace treaties on German and Europe. USA 1905 to 1941 focusing on the US'	USA an in depth study of the immigration policies, the Ku Klux Klan, women's changing role in the 1920's, Wall Street Crash, Hoover, Roosevelt their successes and failures. The League of Na-	League of Nations focusing on the breakdown of relations after WW2 and its failures in the 1930s. The Second World War: The rise of Hitler, his foreign policy and the policy of appeasement. The



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	entry into World War One and the role it played in the peace treaties. We then look at the 1920s economic boom, the roaring twenties and prohibition.	tions: the structure, successes and failures of the 1920's.	causes and consequences of the Cold War.
Geography	Focus on the structure, landforms and landscape processes especially in the origin, characteristics & broad distribution of seismic & volcanic activity. Weathering, river, glacial and marine processes are at the core of the work. Climatic studies with 'hands-on' experience – observing, recording, analysing & presenting data.	Distribution, density and growth of the world population. Influence of birth rates, death rates and migration on population growth and change. Consequences of population growth on resources and development.	Settlement types and factors that influence their growth as well as problems associated with urbanisation. Agricultural and industrial systems: both as open systems. Influence of inputs on processes and outputs. Classifying these industries into primary, secondary and tertiary.
Biology	'Classification of living things', 'Cellular organisation'. 'Movements in and out of cells' through the processes of diffusion, Osmosis and active transport. 'Animal Nutrition' including diet, the digestive system and the functions of the parts of the system.	'Photosynthesis' – examine physiology of photosynthesis & relation to agriculture & food production. 'Transport systems' – need for transport systems in plants and animals	'Transport in Animals', - blood circulatory system and the lymphatic system. 'Respiration' - energy giving process in all living things. 'Homeostasis': temperature regulation.
Additional Mathematics	Coordinate geometry of the line, followed by simultaneous equations. Then exploration of set theory followed by study of matrices. Permutations and combinations end the term's work.	Theory of functions including the quadratic function then surds and indices. The term ends with a study of the Binomial Theorem and some of its applications.	In this term, trigonometry (including the reciprocals of sine, cosine and tangent functions) will be studied followed by circular measures.
Art	Line shape and form. Perspective, view points and aerial perspective. Analytical observation of man made objects in still life. Considering William Harnet's work. Use of colour in exploring surface qualities leading on to developing interpretative skills. Textile design-pattern designing.	Stimulate, encourage and develop: critical awareness. Record from direct observation. Mastering use of media and techniques. Exploiting space, volume, and depth within the composition. Analytical studies of animals, plants and fruits. Sculpture with wire & paper.	Stimulating students' imagination, sensitivity conceptual thinking, powers of observation and analytical ability. In two and three dimensions observational study, interpretative and design studies (Poster Design. Textile design.
French	Topics on myself, my home, my school. Grammar and verbs. Weekly vocabulary tests, work on expression. The 4 skills of listening, speaking, reading and writing.	Topic on my holiday, my health, in town. Grammar and verbs. Weekly vocabulary tests, work on expression. The 4 skills of listening, speaking, reading and writing.	Topics on work, work experience, going out, shopping, free time. Grammar and verbs. The 4 skills of listening, speaking, reading and writing. Introduction of past papers IGCSE.



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Physical Education	Volleyball: serving, receiving and digging skills, tactical play, basketball positioning, tactical play, officiating. Swimming: refinement of strokes. Introduction of fitness- stamina, strength, speed, muscular endurance, heart rate	Introduction of fitness: stamina, strength, speed, muscular endurance, heart rate. Netball: tactical play, pivoting, offensive and defensive, passing and dodging skills. Soccer and Cross-country	Introduction of fitness: stamina, strength, speed, muscular endurance, heart rate. Hockey: advanced control skills, development of positional and tactical play, set pieces. Athletics: sprinting relay technique, long jump and high jump shot, discus and javelin.
Business Studies	The introduction into the IGCSE-programme of Business Studies consists of the subject unit 'Business Activity in its External Environment'. The students then proceed to 'Structure, Organisation and Control of Business'. Furthermore, they receive an introduction to the Coursework they will write during this two-year course.	Students cover the topics 'Marketing', 'Production' and 'Location of Industry', and they learn how to calculate a break-even point. They start their Coursework, which is a feasibility study of a business idea of their own.	Students cover all syllabus aspects of Human Resources Management and, in preparation for their work experience, receive an introduction into Business Communication.
Personal, Social and Health Education	A course designed to teach a variety of topics that are linked directly to the student's particular needs during the year. Pupils are taught study techniques and information about school life to enable them to embark on their IGCSE studies. They look at health related topics and social issues as well as gaining an insight into world religions and the concept of global citizenship.		

