

Curriculum Overview

Academic Year: **2017 - 2018**

Year: **10**

Subject	Term 1	Term 2	Term 3
English Language and English Literature	<p>Reading: Cry the Beloved Country – Introduction to life in South Africa, analyse setting, affairs at the time, Apartheid – rules as a result, attitudes of people at the time.</p> <p>Writing: consolidate writing to persuade, letter writing, writing to answer literary questions(prose, poetry)</p> <p>Understanding thoughts and attitudes of author and effects that they create with their words. – comprehension</p> <p>Activities: watch movie, short clips related to text, project, discussion, debate</p> <p>Poetry: The Reservist, Attack, Anthem for doomed youth, Parents (background of poet, analyse poem, personalized response)</p>	<p>Reading: Macbeth Poems: Elegy for my father’s father, praise song for my mother, one art, friend</p> <p>Writing: dialogue/ interview, journal, speech, understanding what is needed in literary essays (personalised response and analysis)</p> <p>IGCSE Past paper exercises(papers 2 &3 0500/ 0486 P2 & 1s)</p>	<p>Poems: cold in the earth, meeting in the night, the trees, the trees are down, tears, idle tears. Continuation and conclusion of Macbeth</p> <p>Writing: Report, newspaper/magazine</p> <p>Activities: presentations, discussion, debates Past papers</p>
Mathematics	<p>Time in 12 and 24 hour systems including applications. Number types and a review of work on various aspects of number work using BIDMAS, and sets of numbers. Percentages, algebraic representations and change of subject. Graph work, ratio and direct proportion; patterns sequences, standard form, change of units, approximations, and variation. Personal and household finance</p>	<p>Algebraic processes and formula including solution of equations. Limits of accuracy, graphs of functions; graphs in practical situations, ratio, proportion and rate. Graph work, mensuration in 2-D, geometric terms and congruence, locus, and variation. Kinematics</p>	<p>Language, notation of sets (Venn diagrams only for extended students).Limits of measurements; Probability, lines & angles. Constructions & transformation of formulae then study of quadratic equations, linear inequalities and graphs of various curves. Continue with mensuration (arc length sector area included); Bearings, Pythagoras’ theorem and trigonometry.</p>
Physics	<p>General Physics General Physics looks at motion, forces and energy. Thermal Physics Thermal Physics looks at the relationship between heat and matter</p>	<p>Electricity This topic covers D.C electricity looking at voltage, current, power and electrical energy</p>	<p>Electromagnetism and Electronics This topic looks at the phenomenon of electromagnetic induction, the generator effect, AC electricity, transformers and logic gates.</p>

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Chemistry	Students gain knowledge of atoms, elements and compounds and types of bonding before learning electrolysis. They will also study moles in detail and all relevant information relating to stoichiometry. Rates of reaction will also be studied.	Students will be introduced to organic chemistry and will spend the majority of this term studying alkanes, alkenes, alcohols, carboxylic acid and esters. They will also study fuels and polymerisation. The periodic table and the trends that exist will also be studied during this term.	In term three students will study exo and endothermic reaction and be able to carry out calculations using bond energy values. They will also study air, water and pollution.
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 types, Data analysis)	The effects of using information and communication technology (Tele-Conferencing, Faxes, Video- conferencing, Bulletin Boards), 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 at and a variety of sources to find solutions). Document production
History	Modern World History – Subtopics include: The Paris Peace Treaties,The League of Nations: the structure, successes and failures of the 1920's. League of Nations continues focusing on the breakdown of relations after World War 2 and its failures in the 1930s – Manchuria, Abyssinia and the Disarmament conference. The Second World War: The rise of Hitler, his foreign policy and the policy of appeasement.	Who was to blame for The Cold War including the Vietnam War, Korean War and Cuban Missile Crisis, US attempts at containing the spread of Communism,The origins of the Cold War: – the 1945 summit conferences and the breakdown of the USA–USSR alliance in 1945–46 – Soviet expansion into Eastern Europe to 1948, and American reactions to it – the occupation of Germany and the Berlin Blockade – NATO and the Warsaw Pact.	The USSR and Eastern Europe- How secure was the USSR's control over Eastern Europe, incl. Soviet power in Eastern Europe: – resistance to Sovietpower in Hungary (1956) and Czechoslovakia (1968) – the Berlin Wall –'Solidarity' in Poland – Gorbachev and the collapse of Soviet control over Eastern Europe. Events in the Gulf War.
Geography	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. Interrelationships between the natural and human environments.	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.	Settlement types and factors that influence their growth as well as problems associated with urbanization. Agricultural and industrial systems: both as open systems. Influence of inputs on processes and outputs. Classifying these industries into primary, secondary and tertiary.
Biology	Brief revision of 'Classification of living things', and 'Cellular organisation'. 'Movements in and out of cells' through the processes of diffusion, osmosis	'Transport in Plants' – need for transport systems in animals, 'Respiration' in cells for using energy. 'Breathing Systems' and the smoking section of	'Transport in Animals'- blood circulatory system and the lymphatic system. 'Disease and Immunity 'including



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	and active transport. 'Chemistry of Life' and 'Enzymes' followed by 'Human Nutrition' including diet, the digestive system and the functions of the parts of the system and 'Plant Nutrition' including photosynthesis and factors that limit it.	'Drugs' to demonstrate the effects of smoking on the human breathing system.	antibiotics and vaccinations. 'Human reproduction' including menstrual cycle and birth control.
Additional Mathematics	The term will start with the revision of sets, permutations and combinations. The rest of the term will then focus on indices and surds, matrices, quadratic functions, simultaneous equations, Binomial expansions and factors of polynomials.	The term will start with the theory of functions, including the inverse of quadratic functions. The term will then continue with a study of exponential and logarithmic functions, straight line graphs, and will end with revision and consolidation of all concepts covered so far.	In this term, circular measure will be studied followed by trigonometry and then an introduction to vectors in 2-dimensions and will conclude with revision using past exam questions.
Art	'A Personal Statement' – Initial figure studies leading to an exploration of self-image and symbolism. Students will be asked to make paintings and drawings of a collection of objects that say something about themselves. They take this on face value and simply use objects that reflect their interests. Alternatively they may want to be a little bit deeper and choose objects that are symbolic. The project will further develop analytical observational skills leading on to developing interpretative skills.	Continuation of 'A Personal Statement', development and application of tonal drawing and colour techniques, tonal and surface qualities. Considering appropriate historical and contemporary practitioners in the development of their final outcome. 'Abstraction' – Students study the tree paintings of Mondrian and Okeffe, and the textiles of Rowena Dringas a starting point for creating a personal response to the theme natural forms into abstraction. Exploring shape, form and interpretation in a wide variety of media and techniques.	Continuation of 'Abstraction' and personal research of the different approaches to abstraction, referencing appropriate selected sources to develop a final outcome. This can either be 2D, 3D or textile. 'Across the World' – find and collect information on chosen country / culture. Draw, sketch and make notes on what you discover – with reference to areas such as colour, pattern and texture. To be continued into year 11.
French	Healthy/unhealthy lifestyle, relationships with family and friends, hobbies, new technology. Conjugation and grammar. Weekly vocabulary tests. The four skills of listening, speaking, reading and writing.	Holidays, special occasions, home town/neighbourhood/region, the environment. Grammar and conjugation. Weekly vocabulary tests. The four skills of listening, speaking, reading and writing. Introduction to IGCSE past papers.	School life, pressure and problems, jobs. Weekly vocabulary tests. Grammar and conjugation.. The four skills of listening, speaking, reading and writing. Work on past IGCSE papers.



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Physical Education	In Fitness pupils will learn and accurately replicate specific techniques for a variety of fitness based activities. In Volleyball & Basketball pupils will focus on developing more advanced skills and apply them in game situations in order to outwit opponents. Pupils will develop the use of attacking and defensive tactics. They will work in groups taking on a range of roles and responsibilities to help each other to prepare and improve as a team.	In Football & Netball pupils will focus on developing more advanced skills and apply them in game situations in order to outwit opponents. Pupils will work in groups, taking on a range of roles and responsibilities to help each other prepare and improve as a team and in detailed decision making.	In Athletics pupils will enhance the replication and performance across all disciplines. Pupils will engage in performing and improving their skills, personal and collective bests in relation to speed, height, distance and accuracy. In Hockey pupils will focus on developing more advanced skills and apply them in game situations in order to outwit opponents. Pupils will work in groups, taking on a range of roles and responsibilities to help each other prepare and improve as a team and in detailed decision making.
	Physiology and Anatomy How the body works and how we apply it to sporting movements. Skeletal and muscular systems. Cardio-respiratory systems. Health, fitness, training, fitness testing and training programmes.	Sports Psychology. How the mind thinks and how we apply it to sporting movements. Motivation, skills and abilities.	Sports in Society. How we work together. Play, recreation and leisure. Olympics, governing bodies and drugs in sport. Safe practice and first aid.
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.
Economics	Throughout year 10 in Economics, pupils are required to cover five units based on the syllabus content indicated by CIE IGCSE. The first unit consists of the basic economic problem, choice and allocation of scarce resources. Pupils are to be introduced in the world of economy and terms like opportunity cost, PPC, choice and	During term two pupils are required to cover two units. Unit three consists of understanding the individual as a producer, consumer and borrower. It includes aspects of money exchange, labour market, motives for spending the way we do and saving. Unit four is focusing on understanding the private	In the final term on year 10 students are required to cover one more unit and if there is sufficient time start unit six of the next year's syllabus. Unit five consists of the role of the government in the economy. Individuals are expected to understand and evaluate



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	<p>factors of production. In unit two pupils are requested to learn how to allocate the resources to the market and understand how the market works. Upon completion of these units summative assessment in the form of class exam and past papers is to be given to them.</p>	<p>firm as a producer and employer. Aspects to be discussed include types and sizes of businesses, demand, profit maximization, perfect competition, monopoly, advantages and disadvantages of increased scale of economies. Both units will be assessed through exam in class and past papers.</p>	<p>the government's position as producer and employer, the aims of the economic policies such as fiscal, monetary and supply-side. Types of taxation and government's influence on private producers. Again, the unit will be assessed through class exams and past papers.</p>
<p>Personal, Social and Health Education</p>	<p>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.</p>		

