

Autumn term - Curriculum Overview

Year 10

CORE	English	English Language GCSE - Paper 1: explorations in creative reading. Pupils will study <i>unseen fiction texts to analyse language choices and structural choices by the writer. They will also learn to evaluate the effectiveness of texts.</i>	English Language GCSE - Paper 1: explorations in creative writing. Pupils will study <i>narrative writing structures, descriptive writing structures, and creative writing techniques.</i>
	Mathematics	In the first half term, pupils will study the following topics: <i>Powers, factors, multiples and primes</i> <i>Equations of linear graphs</i> <i>Parallel and perpendicular lines</i> <i>Conversion graphs</i>	As they move to the second half term, pupils will study the following topics: <i>Fractions and percentages</i> <i>Laws and indices</i> <i>Standard form</i> <i>Surds (higher tier only)</i>
	Biology	Pupils will begin Year 10 by studying Cells and Transport. They will learn about: cell structures, transport across membranes, cell recognition and the immune system, exchange, and mass transport.	
	Chemistry	In Chemistry pupils begin by learning about atomic structure and the Periodic Table. This will include work on <i>states of matter and separation techniques, the Periodic Table, atoms and elements, properties of metals and non-metals as well as trends in the Periodic Table.</i>	
	Physics	Pupils will begin Year 10 with work on the key topic area of energy. This will cover <i>stretching materials, air resistance and friction, thermal radiation, magnetism, and generating electricity.</i>	

In Year 10 pupils will also begin the study of their personalised subject choices from the World disciplines.

WORLD	History	Germany 1895-1945: democracy and dictatorship: <i>Germany and the growth of democracy; Germany and the depression; the experience of Germany under the Nazis.</i>	
	Geography	Pupils will study a unit on Global Hazards that will cover key knowledge areas that include: 1. <i>Global circulation system and climatic zones</i> 2. <i>Extreme weather conditions</i> 3. <i>Tropical storms, drought & El Nino</i> 4. <i>Contrasting case studies of natural weather Hazards – Big Dry (Australia), Boscastle (UK), Typhoon Haiyan (Philippines)</i> 5. <i>Structure of the earth</i> 6. <i>Plate boundaries and tectonic processes</i> 7. <i>tectonic cases study – Nepal</i> 8. <i>Mitigation of tectonic Hazards</i>	
	Spanish	Family is our topic for the first half term. Pupils will learn vocabulary and explore language needed to speak, write, listen, and read about: <i>physical and personality descriptions; social media and apps' making meetings and giving excuses; reading materials; and relationships.</i> They will then move on to study school life , including vocabulary relating to <i>school subjects, school facilities, uniform school day, descriptions of subjects, and rules.</i>	Grammatical and linguistic focus. In exploring this topic, pupils will learn the following key knowledge: <i>Possessive adjectives</i> <i>Verbs 'poder' and 'querer'</i> <i>'Para' and adjectives</i> <i>The present continuous</i> <i>Adverbs of frequency</i> <i>Reflective verbs</i> <i>'La beuno', 'mato', 'major', 'peor'</i> <i>Comparatives and superlatives</i> <i>Verbs of obligation</i> <i>Near future tenses</i>
	French	Family is our topic for the first half term. Pupils will learn vocabulary and explore language needed to speak, write, listen, and read about: <i>physical and personality descriptions; qualities of a friend; relationships; life when they were younger; and role models.</i> They will then move on to study technology and free time , including vocabulary relating to <i>sports, music, film and TV, online activities, and reading habits.</i>	Grammatical and linguistic focus. In exploring this topic, pupils will learn the following key knowledge: <i>Present tense - adjectival agreement</i> <i>Present tense in the regular and irregular</i> <i>Relative pronoun 'qui'</i> <i>Reflective verbs</i> <i>Emphatic pronouns</i> <i>Pour & infinitives</i> <i>Possessive pronouns</i> <i>Comparatives and superlatives</i> <i>Relative pronoun 'que'</i> <i>Imperfect tense</i> <i>Direct object pronouns</i>
	Religious Studies	In the first half term - Muslin beliefs: <i>The six beliefs, the five roots in Shi'a Islam, Akhirah.</i> In the second half term - Living the Muslim life: <i>the five pillars, the 10 obligatory acts, Jihad, and festivals.</i>	
	Religious Studies - short course.	Year 10 pupils taking the RE GCSE short course in the morning enrichment sessions are following the AQA short course with a focus on Christianity and Islam. <i>Our first topic will be The Study of religions: beliefs and teachings: Islam (Six Beliefs).</i> This is a new course from September 2022.	

In Year 10 pupils will also continue the study of their two subject choices from the Performance and Technical disciplines.

TECHNICAL	Product Design	<p>Core and Specialist Principles of Design Technology. <i>In this theory based unit, pupils will study the development in new materials, including composite materials, smart materials and technical textiles. they will also study energy generation and storage, energy storage systems, nuclear power, fossil fuels, and renewable energy.</i></p> <p>As a practical task to accompany this, pupils will also produce a FPT manufacturing project of photograph frame from a range of materials. <i>A range of traditional and modern skills, processes and techniques will be used to prepare four different wood joints, one for each corner of the frame. Accuracy will be measured by the quality of fit and finish of each joint. The stand for the frame will be manufactured by producing legs from BDMS, working with metal and the opportunity for differentiated design through the continued use of CAD / CAM will improve surface decoration and skill set.</i></p>	
	Business Studies GCSE	<p>Human resources. Key knowledge to include: <i>organisational structures; recruitment and selection; motivating employees; and training.</i></p>	
	Business Studies - Applied	<p>Pupils will produce their first internally assessed coursework on exploring enterprises. This will ask them to consider the characteristics of enterprises.</p> <p>What is an enterprise? Types and characteristics of SMEs The Purpose of enterprises Entrepreneurs</p>	<p>Pupils will continue their internally assessed coursework and include material on market research.</p> <p><i>Customer Needs Using Market Research to Understand Customers Understanding Competitors</i></p>
	Food Technology	<p>Macronutrients. This unit begins with a brief overview of the macro and micronutrients, with its main focus on proteins. The functions and uses of protein in the body are explored, as well as protein-rich foods and the dietary reference values (DRVs) for protein for different groups. Key content:</p> <p><i>Explain the functions of protein in the body. Describe the terms low and high biological value proteins and protein complementation. Identify the main food sources of protein and protein alternatives. Recall the main DRVs for protein.</i></p>	<p>Pupils will develop their study of macronutrients as the term progresses to focus on dates and carbohydrates. Key content includes:</p> <p><i>The functions of fat in the diet. The terms saturated fat, monounsaturated fat and polyunsaturated fat. The maximum amount of fat recommended in the diet to stay healthy. The effects of a deficiency and excess of fats. The main food sources of carbohydrates. The different groups of carbohydrate to include sugar, starch and dietary fibre. The different types of carbohydrates: monosaccharides Glucose and fructose; disaccharides – sucrose, maltose and lactose; and polysaccharides – starch and dietary fibre. The effects of deficiency and excess of carbohydrates.</i></p>
	Computer Science	<p>Algorithms. Key content to include: <i>Ascii Art, functions, library code, data mine, search and sort, and trace tables.</i></p>	
	ICT	<p>Completion of coursework for learning outcome 3: to be able to iteratively review and evaluate the development of ICT solutions.</p> <p><i>Pupils will learn how to carry out and document an iterative review.</i></p>	
	Art	<p>Personal project one: pupils will complete a study based on a series of set stimulus. They will:</p> <p><i>Collect primary and secondary sources for their research;_____</i> <i>Make use of recording of drawings and paintings produced based on these resources.</i> <i>Use digital manipulation as part of their study.</i> <i>Complete artistic research and analysis.</i> <i>Plan and execute a final piece.</i></p>	
	Drama	<p>Pupils begin Year 10 with a unit on script skills, focusing on: <i>recognising style and genre, character development, subtext, status, pause, proxemics, units and objectives, given circumstances, and communicating meaning.</i></p>	<p>In the second half of the term pupils will apply this knowledge to a well-rehearsed and extended group performance of DNA by Dennis Kelly</p>
	Media Studies	<p>Pupils will begin the close study texts that will be the focus of their final examinations. <i>In this term they will study moving image advertising for Galaxy and print advertising for OMO, revising the conventions of both.</i></p>	
	PERFORMANCE	Physical Education	<p>This term pupils will study toward key exam topic areas such as: <i>Lever Systems; Cardiovascular System; Short Term Effects of Exercise; Long Term Effects of Exercise; Types of Feedback; Optimising Training; Commercialisation in Sport; Respiratory system; Preventing Injury; Types of Guidance.</i></p>
Sports Studies - Applied		<p>This term focuses on the following topic areas of the Applied qualification: <i>R185 Topic Area 2: Apply Practice Methods to Support Improvement; R187 Topic Area 2: Understand the Equipment, Clothing and Safety Aspects involved with Outdoor and Adventurous Activities; R185 Topic Area 3: Organising and Planning a Sports Activity Session - Pla; R185 Topic Area 5: Reviewing Performance in Planning and Leadership.</i></p> <p>In addition, practical work will continue in designated lessons as part of NEA assessment with pupils completing the correct logbooks.</p>	
Music		<p>Preparation for final examinations to focus on the set work 'Music for a While' and, in preparation, study vocal music.</p>	