

Year 11 Curriculum Plans

Core Subjects	Autumn Term					
Biology	Cells division and Organ Systems - Develop knowledge of the cell cycle and cell division. Explore the role of organ systems in multicellular organisms.			Microorganisms and Immunity - Investigate a variety of microorganisms and explore how pathogens cause infectious diseases.		
Chemistry	Particle Behaviour - Investigate atomic structure and how the periodic table provides chemists with a structured organisation of the known chemical elements.			Quantitative Chemistry - Use of amount of substance in relation to masses of pure substances.		
English Language	Fiction reading comprehension – Using their homework booklet, students will engage in independent practice for their Language Paper 1. They will complete fortnightly assessments in class to address misconceptions in preparation for their December exams.					
English Literature	Macbeth: Students will re-visit the play focusing on key scenes, characters and quotations to develop exam analysis skills.			An Inspector Calls/Blood Brothers: Depending on their teacher's choice of text, students will engage in a cold read of play in preparation for further study next term.		
Maths – Foundation	Unit 1 More Complex Number – Students will learn to find the reciprocal of any number and calculate fluently with numbers written using index or standard form.	Unit 2 Similarity and Congruence – Students will learn to recognise the difference between similarity and congruence and apply the basic congruence criteria for triangles to complete short proofs. Students will learn to work fluently with similar shapes and scale factors.	Unit 3 Vectors – Students will learn how to draw and calculate with column vectors.	Unit 4 Probability – Students will learn to draw and interpret probability trees.	Unit 5 Further Algebra – Students will learn to set up and solve simultaneous equations. Students will continue their learning of linear graphs to find the equation of a straight-line graph. Students will learn how to complete simple algebraic proofs.	
Maths – Higher	Unit 1 Further graph Work – Students will learn how	Unit 2 Algebraic Fractions and	Unit 3 Sine and Cosine Rules –	Unit 4 Similarity and Congruence – Students	Unit 5 Circle Theorems – Students	Unit 6 Vectors – Students will learn

	to find parallel and perpendicular lines. Students will learn the trapezium rule for calculating the area under a curve and how to find the gradient of a curve at a given point.	Further Manipulation – Students will learn to work fluently with algebraic fractions including using the four operations. Students will learn to expand the product of two or more binomials.	Students will learn and apply the sine, cosine and area rule for non-right-angled triangles. Students will know and use the graphs for the trigonometric functions.	will learn the difference between similarity and congruence and be able to set up formal geometric proofs.	will learn to recognise, apply and prove the standard circle theorems	how to draw, calculate and construct proofs of both column and geometric vectors.
Core PE	Students will know - prior skills, how to evaluate their own performance, how to evaluate the performance of others, how to apply rules and tactics. Based on this knowledge, students will choose a pathway that best suits them. They will also know the importance of the key life skills for post 16 physical education.	Students will show in performance - prior skills, how to evaluate their own performance, how to evaluate the performance of others, how to apply rules and tactics. They will also know the importance of the key life skills for post 16 physical education.	Progression- Pupils will start to apply more of these fundamental life skills and understand how important they are as they continue their physical journey post 16. They have developed skills, knowledge, application, tactics, knowledge of rules and evaluation. Now they will understand why these life skills will help if they want to go and join a new club/team/activity.			
Physics	Waves – Students explore wave behaviour in both natural and man-made systems, whilst understanding that waves carry energy from one place to another and can also carry information. Students deepen their knowledge of modern technologies such as imaging and communication systems, showing how we can make the most of electromagnetic waves.	Space (Triple only) - This topic links together prior topics such as electromagnetic waves and nuclear radiation to develop an understanding of the fundamental ideas that explain the way in which the Universe works. Students will begin with the Solar System and work outwards, studying stars and planets before the Universe as a whole.				

Option Subjects	Autumn Term	
Art & Design	Component 1: Portfolio – Students continue their independent creative journey within the theme “People and Places they will start to select, refine and develop ideas towards creating an outcome.	
Computer Science	<p>Unit 1.3 Computer networks, connections and protocols - In this unit students will develop their understanding of computer networks looking at networks and topologies. Students will learn about wired and wireless networks and common protocols and layers.</p>	<p>1.4 Network Security - In this unit students will develop their understanding of common threats to computer systems and networks. Students will explore how to identify and prevent vulnerabilities.</p> <p>1.5 Systems Software - In this unit students will develop their understanding of common systems software including both operating systems and utility software.</p>
Drama	Component 3: Texts in Practice: Students will begin their component 3 (20% of GCSE), choosing, studying and then rehearsing two contrasting extracts from a play text of their choice.	Component 3: Texts in Practice: Students will complete their component 3 (20% of GCSE), performing to a visiting examiner.
Music	Revisit area of study 1: Forms and Devices (with more advanced topic/class/practical content), Begin work on the composition set brief.	Select final choice pieces for the practical examination and work on performances.
Food	<p>Students will revise the functional and chemical properties of ingredients</p> <p>Students will complete Non-Exam Assessment 1 (15% GCSE). This is a scientific investigation looking at the functional and chemical properties of ingredients. They will then revise nutritional knowledge ready to begin Non-Exam Assessment 2 in the second half term. This is where they complete three technical skills which are written into a portfolio of evidence to meet the task set by the AQA exam board on November.</p>	
Geography	Physical landscapes in the UK – Coasts - a study of coastal processes, landforms created by erosion and deposition, and coastal management.	Resource management – a study of the provision of resources, in particular food, water, and energy. Followed by an in-depth study on food provision in the UK and worldwide.
History	<p>How successful was the Weimar Republic?</p> <p>How did Hitler become Chancellor in 1933?</p>	<p>How did the Nazis deal with opposition to their regime?</p> <p>In what ways did life for ordinary people, change under the Nazis?</p>
GCSE PE	<p>Practical</p> <p>Badminton</p> <p>Football</p>	Pupils will further develop knowledge of core and advanced skills within their chosen sport, they will also further their knowledge of assessing skills and how to train skills through a series of drills as

	Netball	well as train fitness components appropriately. Pupils will also develop knowledge of trends in physical activity in the UK. They will develop knowledge of commercialisation in sport and the different methods of promoting physical activity.
RE	<p>HT1: Component 1: Issues of good and evil. This theme requires learners to consider philosophical questions concerning the origins and nature of good and evil. Through a study of teachings and beliefs, questions relating to the causes of crime and attitudes towards the aims of punishment and treatment of criminals will be considered.</p>	<p>Component 1: Issues of human rights. This theme considers contemporary issues of human rights and social justice and their relationship with religion and belief. Learners will be expected to consider specific issues of wealth and poverty, racial prejudice and discrimination.</p>
Sports Science	R045- Sports Nutrition – Students learn what a good diet looks like, what the components of these are and how to apply it to different athletes.	
Spanish	<p>Students will learn: vocabulary for various places in town, directions, prepositions of position, shops, features of a region, presents and clothes and problems or issues with a town. They will also know the language for meals & foods, routines, illnesses & injuries, festivals & special events, and the language used in a restaurant.</p> <p>Students will know how to: describe their region, use transactional language for shopping, ask and answer questions about a town and discuss problems and use and understand a variety of tenses when describing a visit to a town. They will also know how to understand and use the passive voice such as “you can...” or “one does... x.y.z”</p>	

Core Subjects	Spring Term	
Biology	Homeostatic Mechanisms – Explore in detail homeostatic mechanisms and the role that they play in maintaining optimal conditions within humans.	Genetics and Evolution - Investigate further genetic inheritance and explore the use of genetic crosses to explore single gene combinations.
Chemistry	The rate and extent of chemical change - Investigate the factors that affect the rate of chemical reactions and Le Châteliers Principle.	Petrochemicals - Explore the chemistry of carbon compounds including the reactions of alkenes and alcohols.
English Language	Writer’s Viewpoints and Perspectives - Through independent study using their homework booklet, students will practice their approach to writing for a particular purpose as well as reading non-fiction comprehension. They will complete regular assessments in-class for each question type.	

English Literature	An Inspector Calls/Blood Brothers: Students will explore the key themes and characters of the play developing their analytical writing skills and contextual knowledge in preparation for their exam.	A Christmas Carol - Students will recap the key themes and characters of the novella developing their analytical writing skills and contextual knowledge in preparation for their exam.
Maths	Teachers will deliver lessons appropriate to the class, drawing on the strengths and weaknesses identified during the Practice Exams and in class assessments.	
Core PE	Students will know - prior skills, how to evaluate their own performance, how to evaluate the performance of others, how to apply rules and tactics. Based on this knowledge, students will choose a pathway that best suits them. They will also know the importance of the key life skills for post 16 physical education.	Students will show in performance - prior skills, how to evaluate their own performance, how to evaluate the performance of others, how to apply rules and tactics. They will also know the importance of the key life skills for post 16 physical education.
		Progression- Pupils will start to apply more of these fundamental life skills and understand how important they are as they continue their physical journey post 16. They have developed skills, knowledge, application, tactics, knowledge of rules and evaluation. Now they will understand why these life skills will help if they want to go and join a new club/team/activity.
Physics	Energy & Molecules and Matter – Deepening knowledge to key areas e.g. calculating distance from V/T graphs, incorporating weight to work done calculations etc, whilst developing further understanding through required practical's, deeper mathematical exercises and triple only content where applicable (Gas Pressure and Temperature).	Electricity - Strengthen knowledge to key areas whilst developing further understanding through required practical's, deeper mathematical exercises (rearrangement, unit conversion) and triple only content where applicable (Static).

Option Subjects	Spring Term	
Art & Design	Component 2: Students will start to explore ideas for the Externally Set Assignment from the exam board (Final GCSE Exam Project - Worth 40% of GCSE)	
Computer Science	Unit 1.6 Ethical, legal, cultural and environmental impacts of digital technology - In this unit students will develop their understanding of ethical, legal, cultural, environmental and privacy issues associated with Computer Science. Students will gain an	Consolidation of Year 10 and 11 units - Exam preparation – students through teacher guidance will prepare for the GCSE examination series.

	awareness of legislation relevant to Computer Science by exploring common Acts of Law and software licences.	
Drama	Component 1: Understanding Drama (20% of GCSE)- students will study and prepare for their live theatre evaluation section of the written examination (Section C).	Component 1: Understanding Drama- study of a set examination play text ('Blood Brothers' by Willy Russell) Students will revisit the above set examination text, focusing on elements including characterisation, plot structure, subtext, theme, set- design and performance skill for the written examination (20% of GCSE)
Music	Revisit area of study 2- Music for ensemble Revisit area of study 4: Popular Music (with more advanced topic/class/practical content) - Bhangra and fusion	Revisit area of study 3: Film Music (with more advanced topic/class/practical content), Minimalistic techniques, chromatic harmonies Complete all coursework (performance and composition)
Food	Non-Exam Assessment 2 is continued with preparation of the 3-hour practical examination where three dishes are made to suit the brief set by the exam board	Students will recap all the theory covered in year 10 to prepare for the written paper (50% GCSE).
Geography	The living world – Students will look at ecosystems from a local to global scale with a specific focus on rainforest and hot desert environments. This includes the location, plant and animal adaptations, economic uses, threats and management of these fragile regions.	
History	Why did white Americans head west, and how did this lead to conflict and tension with the Plains Indians? Students will understand the impact of the development of the Plains on the Plains Indians and the conflicts that resulted from this.	Students will understand changes in industry and farming and how this led to the destruction of their way of life.
GCSE PE	Practical Handball Athletics Mock Moderations	Pupils will develop knowledge of what it means to have a healthy, active lifestyle, how we promote this and what good diet and nutrition consists of.
RE	Component 2: Christian Practices. Students will continue with the theme of Christianity but this time they will see how believers put their faith into action through practices such as the sacraments, pilgrimage and worship.	Component 3: Islam Practices. Students will continue with the theme of Islam but this time they will see how believers put their faith into action through practices such as the 5 pillars of Islam, festivals and jihad.

Sports Science	R045- Sports Nutrition – Students learn what a good diet looks like, what the components of these are and how to apply it to different athletes.
Spanish	<p>Students will learn: vocabulary for different career choices, work experience, activities they do to earn money, reasons for learning languages, and activities during a gap year. They will also learn the language for different types of homes, local actions and environmental issues, diet-related problems and healthy lifestyles, global issues and international events.</p> <p>Students will know how to: use multiple tenses to add interest and variety to descriptions. They will also know how to extend responses giving reasons and connectives to add detail and complexity to descriptions.</p>

Core Subjects	Summer Term		
Biology	Ecology - Explore several ecosystems and their complex communities of animals and plants. Synoptic review of the curriculum.		
Chemistry	Earth and the Atmosphere - Investigate the dynamic and forever changing chemistry of the atmosphere. Synoptic review of the curriculum.		
English Language	Language exam skills - Students will be provided with a weekly structure. This will be dependent on their class teacher's assessment of where students have gaps in their learning at this stage.		
English Literature	Literature exam skills - Students will be provided with a weekly structure. This will be dependent on their class teacher's assessment of where students have gaps in their learning for specific set texts or poetry at this stage.		
Maths	Teachers will deliver lessons appropriate to the class, drawing on the strengths and weaknesses identified during the Practice Exams and in class assessments.		
Core PE	Students will know - prior skills, how to evaluate their own performance, how to evaluate the performance of others, how to apply rules and tactics. Based on this knowledge, students will choose a pathway that best suits them. They will also know the importance of the key life skills for post 16 physical education.	Students will show in performance - prior skills, how to evaluate their own performance, how to evaluate the performance of others, how to apply rules and tactics. They will also know the importance of the key life skills for post 16 physical education.	Progression- Pupils will start to apply more of these fundamental life skills and understand how important they are as they continue their physical journey post 16. They have developed skills, knowledge, application, tactics, knowledge of rules and evaluation. Now they will understand why these life skills will help if they want to go and join a new club/team/activity.
Physics	Forces - Deepening knowledge to key areas e.g. calculating distance from V/T graphs, incorporating weight to work done calculations etc, whilst developing further understanding through required practical's,	Nuclear Radiation - Strengthening knowledge to key areas e.g. calculating net decline in a radioactive emission whilst developing further understanding	Magnets and Motors – Reinforce understanding of topic specific techniques (left& right-hand rule etc) and mathematical requirements (flux density) through practical work and application. Higher/triple only

	deeper mathematical exercises and triple only content where applicable.	through required practical's, deeper mathematical exercises and triple only content where applicable (Fission/Fusion).	content (loudspeakers, transformer calculation etc) developed.
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Option Subjects	Summer Term
Art & Design	Improvement of Component 1: Students will reflect on their Portfolio or of work and make any improvements needed to their Zoo and/or People and Places Projects.
Computer Science	Revision priorities determined by the teacher
Drama	Component 1: Understanding Drama- Response to Live Theatre Production Students will prepare for the written examination through revision and a series of practice questions for sections A, B and C (40% of GCSE)
Music	Listening practice and examination revision. - draw links between topics and use of keywords.
Food	Revision of all theory subject material - Further develop written technique to answer written questions.
Geography	Revision of taught content along with further exam preparation and development of written technique.
History	Revision
GCSE PE	Further develop knowledge of specific topics highlighted as weaknesses throughout the course
RE	Revision and exam practice.
Sports Science	Assignment priorities
Spanish	Students will learn: their oral/written exams topics and prepared notes about the five themes: identity & culture, region and holidays, education, work and future plans, global issues. They will also practise techniques to manage their time during exams and what the exam papers will look like and the skills that will be tested. Students will know how to: answer questions with confidence and spontaneity. Describe what they see and be able to express their opinions and details about their experiences on a variety of topics. Succeed in their Spanish exams using everything they have been taught in the past 5 years and applying their knowledge and skills.