

Year 10
Overview of
Learning

This term we are learning
about
"Why do we celebrate?"



Our Change Maker principle, this
term is 'Positivity'



English - GCSE or Entry Level	Maths - GCSE or Entry Level	Science - GCSE or Entry Level	iMedia Cambridge Nationals or Performing Arts BTEC	PSHE/RSE & Personal Development
<p>GCSE English This term our young people will begin to work on the skills needed for the AQA English Language GCSE. We'll focus on both reading and writing skills, learning how to understand writers' techniques and how to write for different purposes. Young people will also complete mock-style tasks to practise exam techniques and build confidence ahead of Year 11.</p> <p>FSLE3 to FSL1 This term our pupils will continue to work on their Grammar, punctuations and creative writing in</p>	<p>GCSE Year 10 Maths Overview - Congruence & Trigonometry (White Rose) This term, Year 10 will be following the White Rose Maths scheme, focusing on two key GCSE units: Congruence and Trigonometry. These topics build essential geometric and problem-solving skills needed for success at GCSE.</p> <p>Congruence Students will learn to: Understand what it means for shapes to be congruent. Use formal geometric reasoning to prove two shapes are the same size and shape. Apply transformations (reflections, rotations, translations) to explore congruence. Use congruence in problem-solving, including reasoning questions.</p>	<p>GCSE Biology</p> <p>During the beginning of this half term students will be completing their study of the Organisation topic. We will be exploring different plant organs such as leaves, and how they are adapted to be best carry out their role and looking at stomata under a microscope.</p> <p>Following this we will move on to the Communicable and Non-Communicable Diseases topic. Learners will study the differences between two major types of diseases: those that can spread and those that cannot.</p> <p>We will be looking at non-communicable as diseases that are not infectious and cannot be caught from another person but are influenced by genetics, environment, and, crucially, lifestyle choices. The curriculum focuses heavily on understanding risk factors associated with these diseases, such as the link between smoking and lung cancer, poor diet and type 2 diabetes or heart disease,</p>	<p>Creative iMedia</p> <p>Students will continue to produce their first piece of coursework for this qualification on the topic of producing a leaflet for an animal park. They will focus initially on the design elements and then consider the use of photo editing software to create the product</p> <p>Computer Science</p> <p>Students will learn about networking, including:</p> <ul style="list-style-type: none"> • Network topologies • Pros and cons of different types of network • How the internet works 	<p>PSHE</p> <p>Students will explore mental and physical health symptoms, looking at how to spot signs of mental distress in others and where to seek support</p> <p>They will also explore topics around harassment and the importance of respecting the personal space and boundaries of others</p>

<p>order to prepare for their mock exams. They will continue to be assessed each week by doing Reading and Writing Comprehension papers FSEL 3 and FSEL 1, focusing more on Level 1 progression. We will continue to look at descriptive writing task to increase their confidence to work more independently for preparation for Year 11 and beyond</p>	<p>This unit helps students develop precise mathematical language and logical reasoning.</p> <p>Trigonometry Pupils will explore: Using sine, cosine and tangent to find missing lengths in right-angled triangles. Applying trigonometry to solve practical and multi-step problems. Working out unknown angles using inverse trigonometric functions. Beginning to link trigonometry with bearings, scale diagrams and real-world contexts. These lessons build strong foundations for higher-level GCSE topics and support confidence with geometry and problem-solving.</p> <p>FSEs</p> <p>This term our pupils are continuing to work on their multiplication, subtraction, division and addition which are the basics they require to become potential mathematicians (which is our goal for every pupil).</p> <p>We are now working on tasks how to manage money, bills as well as interests and savings along with times tables and indices.</p>	<p>lack of exercise, and excessive alcohol consumption.</p> <p>Students will then be introduced to the 4 main types of pathogen as the cause of communicable diseases. We will be looking at how pathogens are passed from one person to another through various means like air, water, or direct contact before diving into Malaria in detail.</p> <p>Understanding the distinction between the two types of disease helps explain public health initiatives like vaccination programmes and lifestyle advice.</p> <p>Throughout the topic young people will be practicing exam style questions on their learning.</p> <p>GCSE Combined Science</p> <p>During the beginning of this half term students will completing their study of the Chemistry topic Atomic Structure and the Periodic Table. This includes the difference between metals and non-metals and practically investigating which metal is the best conductor. We be looking at Group 1 and Group 0 in more detail including their properties linked to their atomic structure and location of the periodic table.</p> <p>We will then be moving on to the Physics topic Energy. Young people will be looking at how energy is stored and transferred, using</p>	<ul style="list-style-type: none"> • Network protocols <p>Performing Arts This half term we will be continuing with unit 2 of the course - composition. Students will compose a piece (or pieces) of work and write about the compositional process, detailing their thoughts, inspirations and objectives</p>	
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	<p>The pupils will be doing more assessment papers incorporating all the above units they have completed previously.</p> <p>The pupils will be learning about bearings and handling and interpreting data, according to their perspective levels in preparation for their mock exams and to continue building on their skills, confidence and knowledge as they continue will their journey towards Year 11 and beyond.</p>	<p>equations to calculate the amounts of energy in different situations. We will be learning about factors that affect the amount of thermal energy in a system and practically investigating the specific heat capacity of different substances. Finally, we will explore how energy is linked to power, work done and efficiency, using Sankey diagrams to represent energy transfers that include wasted energy to illustrate efficiency.</p> <p>Throughout the topic young people will be practicing exam style questions on their learning.</p> <p>ELC Science</p> <p>We will begin this half term by exploring communicable diseases. We will learn about two types of pathogen, how they make us feel ill and some of the signs of an infection. Learners will dive into the immune system and how white blood cells can fight pathogens once they have entered our body and look at the use of vaccines and medicines such as antibiotics to prevent the spread of infection. Students will have the opportunity to practically investigate the effectiveness of different disinfectants on agar plates inoculated with bacteria.</p>		
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History - GCSE	BTEC Home Cooking Skills	Physical Education	Careers
<p>This half term we will finish the unit on Medicine on Britain 1250-Present. We will cover the last elements of modern medicine looking at Crick and Watson discovery of DNA and then a case study on Lung Cancer.</p> <p>We will then cover the case study section of the unit looking at medicine and treatment in the British sector of the Western Front 1914-18 which covers the structure of the trench system, the key battles of Ypres, Arras, Cambrai and the Somme, the chain of evacuation of wounded and the start of plastic surgery for head wounds. We will then look medical developments that came from WW1 such methods of cleaning wounds and amputations as well as mobile x-ray machines and blood transfusions</p>	<p>BTEC Home Cooking Skills Level 1</p> <p>This term, students working toward the BTEC Home Cooking Skills Level 1 qualification will build essential cooking skills and confidence through a range of practical activities and theory lessons. They will prepare dishes such as shepherd's pie, tacos, fish and chips, and Christmas cookies, learning key techniques in preparation, cooking, and presentation. Alongside practical work, students will explore sustainability, ethical food choices, and cultural influences, developing an understanding of how to make informed, healthy, and responsible food decisions in line with the aims of the BTEC Home Cooking Skills course.</p>	<p>Year 10 PE will cover invasion games and dance. Invasion games will develop a variety of tactics and strategies to overcome opponents in team games. Dance will explore a variety of specific vocabulary, line dancing and allow time for creativity of own choreography. Both topics will look at evaluating performances compared to previous ones in order to demonstrate improvements and achieve their person bests.</p>	<p>This half term we will look at identifying interesting jobs and roles that align with our students' personal interests and values, we will research the Labour Market and start to produce a career pathway designed to map their potential journey. We will reflect on career ideas and adapt where needed .</p>