

YEAR 10

What are we studying?



Subject	This Term We are Studying...
English	<p>Language: Component 2 Reading Papers, Transactional Writing Literature: Anthology Poetry, A Christmas Carol</p>
Maths	<p>Algebra 12</p> <ul style="list-style-type: none">Collecting like terms, rules of indices, expanding and factorising linear and quadratic, solving equations, inequalities; <i>Extension only:</i> algebraic proof <p>Data 9</p> <ul style="list-style-type: none">Frequency polygons, frequency trees, stem and leaf; <i>Core Plus and extension only:</i> cumulative frequency graphs, box plots, histograms <p>Number 12</p> <ul style="list-style-type: none">Prime factors, HCF and LCM, product rule, standard form, calculating with standard form with and without a calculator, powers and roots, positive and negative integers; <i>Core plus and extension:</i> Surds, rationalising the denominator, recurring decimals into fractions <p>Algebra 13 <i>Core, Core plus and extension only</i></p> <ul style="list-style-type: none">Substitution into formulae and expressionsRearrange FormulaeSimultaneous equations; solving graphically <p>Shape 13</p> <ul style="list-style-type: none">Understanding geometric notation for lines and angles, Solve angle reasoning problems using a combination of all prior learnt angle facts <p><i>Core plus and extension only: terminology for parts of a circle and circle theorems.</i></p>
Science	<p>P2- Electricity</p> <ul style="list-style-type: none">Exploring the generation and transfer of electricity both commercial and domestic <p>P3 - Particle model</p> <ul style="list-style-type: none">Exploring the structure of the three states of matter density and specific heat capacity. <p>C2 - Bonding and Structure</p> <ul style="list-style-type: none">Exploring how atoms and elements combine to make new substances. <p>C3 - Quantitative Chemistry</p> <ul style="list-style-type: none">Investigating how chemists calculate the correct quantities to react together to form new substances <p>B2 - Organisation</p> <ul style="list-style-type: none">Exploring the organ systems of the body and processes involved. <p>B3 - Infection and Response (F)</p> <ul style="list-style-type: none">Investigating communicable and noncommunicable diseases, how to treat/prevent them and the immune system.

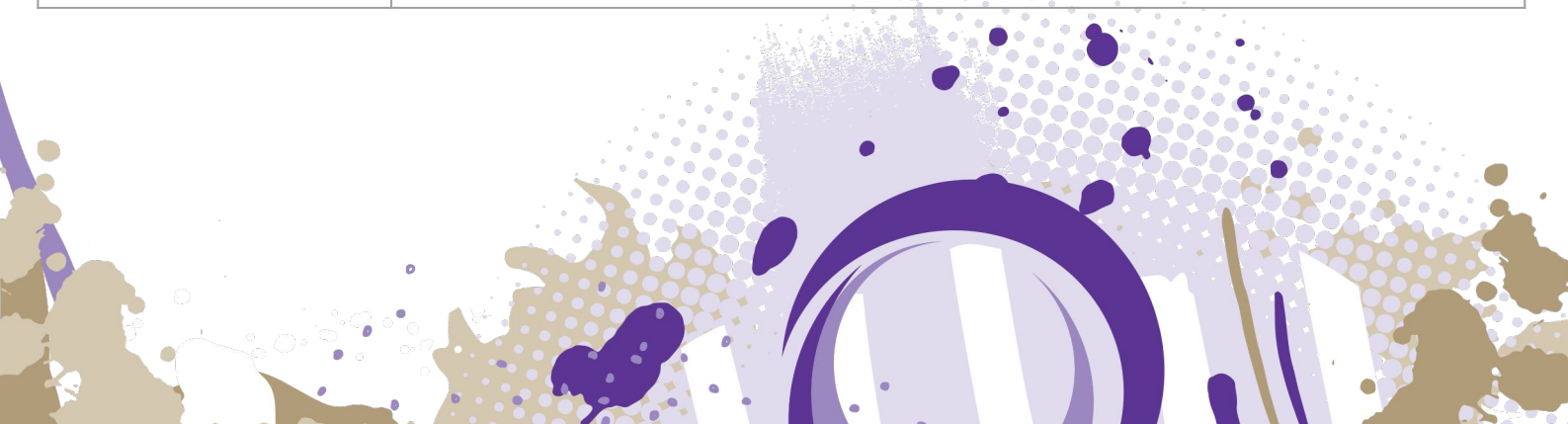


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Art	<p>How can we be inspired by the Blue Planet? An inspired exploration of the world beneath as introduced by the works of Sir David Attenborough. Students take inspiration from the sea life and research artists also inspired by the same stimulus. Students will be introduced to the 4 assessment objectives and begin working to cover these whilst building a portfolio.</p>
DT	<p>Theory - Unit 1.1 - Key Ideas in Design and Technology Practical - Unit 1 - Technical Drawing Skills Theory - What are the key factors affecting industry and the basic processes of design and manufacturing? Practical - How can we use knowledge of Maths and Art to create comprehensive design drawings?</p>
Computer Science	<p>Algorithms: Students will be learning about variables and how algorithms use sequencing, selection and iteration before moving on to look at abstraction and decomposition. Students will then learn how to track and refine algorithms and the use of flow charts. In the second half term students will move onto look at data representation including denary, binary and hexadecimal before looking at how data is represented.</p>
Geography	<p>Unit 1: Natural Hazards Students will examine plate tectonics and earthquake hazards in Nepal and L'Aquila. They will look at the effects and responses to these hazards, along with how the effects of these can be reduced by planning, protection and preparation. They will also study weather hazards in the UK and a tropical storm in the Philippines. This will also examine cause, impact and management. Cause, impact and management of climate change is also studied as part of this topic.</p> <p>Unit 2: Urban We will study urbanisation around the globe and the will look at the UK city of Sheffield and Rio de Janeiro in Brazil. Students will study the opportunities and challenges in both these cities and will look at how both can be improved and made more sustainable.</p>
History	<p>Unit 2: Elizabeth: The key terms and concepts we will cover will be how Elizabeth I overcame her problems and how she united the country under her Religious Settlement and this will also reinforce the concept of the divine right to rule.</p> <p>Aspects Covered:</p> <ul style="list-style-type: none"> ● Northern Earls Revolt ● English society, the Elizabethan Age of Exploration and the future foundations for an Empire. ● Elizabeth's Foreign Policy <p>Unit 1 Medicine Through Time: The British Sector of the Western Front, 1914-1918. Students will be studying key battles, trench warfare, chain of evacuation, battle injuries and new medical discoveries and techniques implemented on the Western Front. It introduces students to new exam questions and skills, including historical enquiries and how sources are used to build up evidence of historical time periods and events.</p>
Hospitality and Catering	<p>Unit 1 - Exam - The hospitality and catering industry</p> <ul style="list-style-type: none"> ● Introduction & exam breakdown ● Types of establishments ● Food service ● Ratings and standards ● Job roles ● Qualifications and skills ● Setting up a business project - catering establishment <p>Preparing, making and styling various dishes such as soup and bread roll, curried potato pasties with baked beans, melting moments and custard, burger and bun, sticky toffee pudding, Thai fishcakes and sweet chilli sauce.</p>



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Languages	<p>French and Spanish Free time Life online, sports and free time activities, arranging to go out, what you did at the weekend, plans that went wrong.</p> <p>Spanish Holidays What would you like to do in a Spanish town?</p>
Physical Education	<p>Unit: Competitive Sport / Healthy Active Lives</p> <p>Rugby, Personal Fitness and Handball.</p> <p>Curriculum development opportunities for skills and teamwork. Students can progress from basic skills to advance game situations. Extension opportunities for more complex game situations and tournaments.</p>
Sports Studies	<p>This term students will begin their 2 year sports studies course. Students will start with:</p> <p>R185 Unit - Performance and leadership in sports activities. TA1 - Key components of performance. TA2 - Applying practice methods to support improvement in a sporting activity. TA3 - Organising and planning a sports activity session.</p>
Music	<p>How do I begin to explore musical products and style? Working in preparation for the release of component 1. Students will develop and build skills based upon their chosen instrument. Learners will explore the techniques used in the creation of different musical products and investigate the key features of different musical styles.</p>
Performing Arts	<p>How do I explore practitioners? An exploration of skills and techniques used by a range of practitioners and styles to develop a good understanding of theatre performance style.</p> <p>How do I devise my one piece of theatre? A study of the OCR set text where students select form a list of stimulus to create their own performance with a clear cultural, historical and or social context.</p>



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Performing Arts	<p>How do I prepare and deliver a monologue? Looking at a range of monologues learning lines, developing characters and learning scripts.</p> <p>How do I explore practitioners?</p>
Health and Social Care	<p>R033 Supporting individuals through life events.</p> <p>Students have to do an interview of someone they know, explain the life stages, explain two life events the person has experienced and explain the impact of that life event on their growth and development.</p>
IT	<p>WJEC ICT - Unit 1 - ICT in Context</p> <p>Students are learning about how ICT is used in the world of work. This includes learning about the different types of input, output and storage devices, how data is processed, the ICT services available to businesses and other topics that will help them in their future careers using ICT.</p> <p>WJEC ICT - Unit 2 - Spreadsheets</p> <p>Students are relearning the basic functions and formulas that make up a successful spreadsheet. Students are practising the basic skills they need to create successful spreadsheets, as well as learning about how spreadsheets are used in the wider world and their practical application.</p>



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Life	<p>How are alcohol, drugs and risky sexual behaviour linked? What are contraceptives? What are the dangers of pornography? What are the laws on sex? What are unhealthy relationships? How do I stay safe online? How do I stay safe in the world? What role does reproduction play in sexual relationships? What are the danger of revenge porn? How do we avoid being part of sexting? What is "Rape Culture"? How do we safeguard ourselves from STIs? What is honour based violence and forced marriage?</p>

Area	This Term We are Studying...
Assembly Focus and Tutor Themes	<ul style="list-style-type: none">• What are the expectations in my school?• How do I keep myself and others safe online?• What is a democracy and why does it matter?• Student Council:What is it and how do I get involved?• Why is Black History Month important?• How can I evaluate my own and other's mental health?• How can I reduce my carbon footprint? Physics assembly with Ogden Trust• How can we support our community? How can I celebrate safely and respectfully?• Why is remembrance so important?• What is parliament's role within the UK?• How can I stay safe around our roads?• Why is volunteering essential to society?• Why do we celebrate Christmas?• How is Christmas celebrated worldwide?

