

# YEAR 11

## What are we studying?



Subject	This Term We are Studying...
English	<p><b>Language: Consolidation of the skills below:</b></p> <ul style="list-style-type: none"><li>• Narrative Writing,</li><li>• Transactional Writing,</li><li>• CI and 2 Reading</li></ul> <p><b>Literature: Consolidation of the texts and skills below:</b></p> <ul style="list-style-type: none"><li>• Anthology Poetry</li><li>• An Inspector Calls</li><li>• A Christmas Carol</li></ul>
Maths	<p><b>FOUNDATION</b></p> <p><b>Number</b></p> <ul style="list-style-type: none"><li>• Calculating with all four operations with decimals and fractions</li><li>• Rounding and estimating</li><li>• Error intervals</li><li>• Prime factors, HCF and LCM</li></ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"><li>• Simplify algebraic expressions</li><li>• Substitute positive and negative integers into expressions</li><li>• Expanding and factorising linear expressions</li><li>• Solving equations with unknowns one side and unknown two sides</li><li>• Change the subject</li><li>• Inequalities - on a number line and solving</li><li>• Laws of indices</li></ul> <p><b>Data and probability</b></p> <ul style="list-style-type: none"><li>• Averages from tables</li><li>• Construct and interpret pictograms, stem and leaf diagrams, scatter graphs, frequency polygons, pie charts and bar charts.</li></ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"><li>• Transformation (including describing)</li></ul> <p><b>HIGHER</b></p> <p><b>Number</b></p> <ul style="list-style-type: none"><li>• Prime factors, HCF, LCM.</li><li>• Standard form (converting and calculating with)</li><li>• Surds (simplifying, multiply, divide, add, subtract and rationalise the denominator)</li><li>• Negative and fractional indices</li><li>• Percentages (increase, decrease, finding the original, compound interest and depreciation)</li></ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"><li>• Expand and simplify algebraic expressions (including application to shape problems)</li><li>• Factorise algebraic expressions</li><li>• Expand and factorise quadratics (including when the coefficient of x squared is bigger than 1)</li><li>• Solving quadratics (through factorising, completing the square, using the formula and using the graph)</li><li>• Solve simultaneous equations</li><li>• Changing the subject</li></ul> <p><b>Geometry</b></p> <ul style="list-style-type: none"><li>• Recap of Pythagoras Theorem and trigonometry</li><li>• Pythagoras and Trigonometry in 3D</li><li>• Sine rule, cosine rule and area rule.</li><li>• Angles in polygons and parallel lines (extending to angle problems involving algebra)</li><li>• Area and perimeter (including compound shapes, circles, sectors and arcs)</li><li>• Volume and surface area of 3D shapes</li><li>• Transformation (including describing)</li></ul> <p><b>Data and Probability</b></p> <ul style="list-style-type: none"><li>• Cumulative frequency graphs</li><li>• Drawing and interpreting box plots</li><li>• Averages from tables</li><li>• Draw and interpret histograms</li><li>• Probability from two way table</li><li>• Probability trees (independent and dependent)</li></ul>

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Science	<p><b>P5 - Forces</b></p> <ul style="list-style-type: none"><li>- How forces shape the world around us and how we can use them in daily activities.</li></ul> <p><b>P6 - Waves</b></p> <ul style="list-style-type: none"><li>- How they travel, their properties and their uses.</li></ul> <p><b>P7 - Magnetism and Electromagnetism</b></p> <ul style="list-style-type: none"><li>- Investigating the force of magnetism and its uses in electromagnets</li></ul> <p><b>B5 - Homeostasis and Response</b></p> <ul style="list-style-type: none"><li>- Exploring the nervous and endocrine system and their uses in the body.</li></ul> <p><b>B6 - Inheritance</b></p> <ul style="list-style-type: none"><li>- How genes are linked with inherited characteristics from parents and potential disorders</li></ul> <p><b>C6 - Rates of reaction</b></p> <ul style="list-style-type: none"><li>- In this topic we will investigate factors affecting the rate of reactions and how these can be used in industry.</li></ul> <p><b>C7 - Organic Chemistry</b></p> <ul style="list-style-type: none"><li>- Investigating the world of hydrocarbons and how we can split them into more useful substances.</li></ul> <p><b>C8 - Chemical analysis</b></p> <ul style="list-style-type: none"><li>- Investigating chromatography, gas tests and pure/ impure substances.</li></ul> <p><b>C9 - Chemistry of the atmosphere (excluding Triple)</b></p> <ul style="list-style-type: none"><li>- Investigating the composition of the atmosphere both past and present and factors causing change</li></ul>
Health and Social Care	<p><b>R035 Health promotion campaigns.</b></p> <p>Students will need to research national campaigns on a specific topic. They then need to plan and present their own campaign to students of the academy and evaluate that process.</p>
Sports Studies	<p><b>R186 Media Unit</b></p> <p>Students will be exploring the sources and positive and negative effects of media on sport and beginning the next coursework unit which accounts for 20% of their final grade.</p> <p><b>R184 exam Unit</b></p> <p>Students will also be beginning the exam topic looking at the following 2 areas.</p> <p><b>TA1</b> - Barriers to participation</p> <p><b>TA2</b> - Promoting Sporting values</p>
Art	<p><b>Mock Exam:</b></p> <p>Students are given a past exam paper to allow them the experience of selecting one of the seven starting points provided and leading their own development through the 4 assessment objectives. They are encouraged to explore their own personal style whilst engaging with the work of artists, craftspeople and designers to aid the development of a personal response. This project is a sustained investigation from an initial starting point, recording the journey through portfolio work, larger scaled pieces and annotations to explain ideas and context. Students explore relevant media ensuring refinement of outcome and the inclusion of drawing &amp; annotation relevant to the chosen media.</p>



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Subject	This Term We are Studying...
DT	<p>NON EXAM ASSESSMENT- Portfolio and practical</p> <ul style="list-style-type: none"><li>• I.0 Introduction to NEA</li><li>• I.1 concept map</li><li>• I.2 Designer research</li><li>• I.3 product analysis</li><li>• I.4 Client and product specification</li><li>• I.5 Initial designs</li><li>• I.6 Digital designs - CAD - various software</li><li>• Developing skills using plastic, wood and modelling in various materials.</li></ul>
Computer Science	<p><b>Networks and How data is used:</b> Students will learn about the factors that affect network performance and the roles of devices in client-server &amp; P2P networks. They will also be learning about which types of hardware can be used to connect devices in a network and the different network types, topologies and layers. They will look at the differences between IP and MAC addresses and how data is transmitted via wi-fi, ethernet and bluetooth. Students will then move on to look at the different threats posed to networks before looking at operating systems and the different types of software that can be used within them.</p>
Geography	<p><b>Unit 3: Human Fieldwork</b> Students undertake a fieldwork study - Do housing inequalities exist in Middlesbrough?</p> <p><b>Unit 1: Rivers</b> This unit builds on the physical processes and landforms along rivers. Flooding and management are also studied. They examine the River Tees as an example of a river that has been managed to reduce the risk of flooding.</p>
History	<p><b>Unit 3: Germany</b> They students will have the opportunity to study Hitler's early career and the Rise of the Nazis. Students will be analysing and arriving at a judgement of how Hitler and the Nazis came to power, including how Hitler was able to create a dictatorship and create a police state. Then finally the students will be studying the treatment of the minorities.</p> <p><b>Unit 2: American West</b> Student learn about conflict and conquest on the plains. This develops key concepts which are threaded throughout the History curriculum including; democracy, government, religion and law and order.</p>
Hospitality and Catering	<p><b>Unit 2 - Non exam assessment:</b></p> <ul style="list-style-type: none"><li>• Students will be prepared for their NEA</li><li>• Students will recap learning on nutrition for different life stages and medical needs.</li><li>• Practicals - covering how to style and present dishes</li><li>• Recap and practical lessons to build skills in preparation for their practical assessment</li><li>• Students are Issued with an assessment brief from the exam board.</li><li>• They will plan, prepare, cook, serve and evaluate two dishes that suit the two customers stated within the brief.</li><li>• They have 12 hours in which to complete their planning, practical work and evaluation.</li></ul>

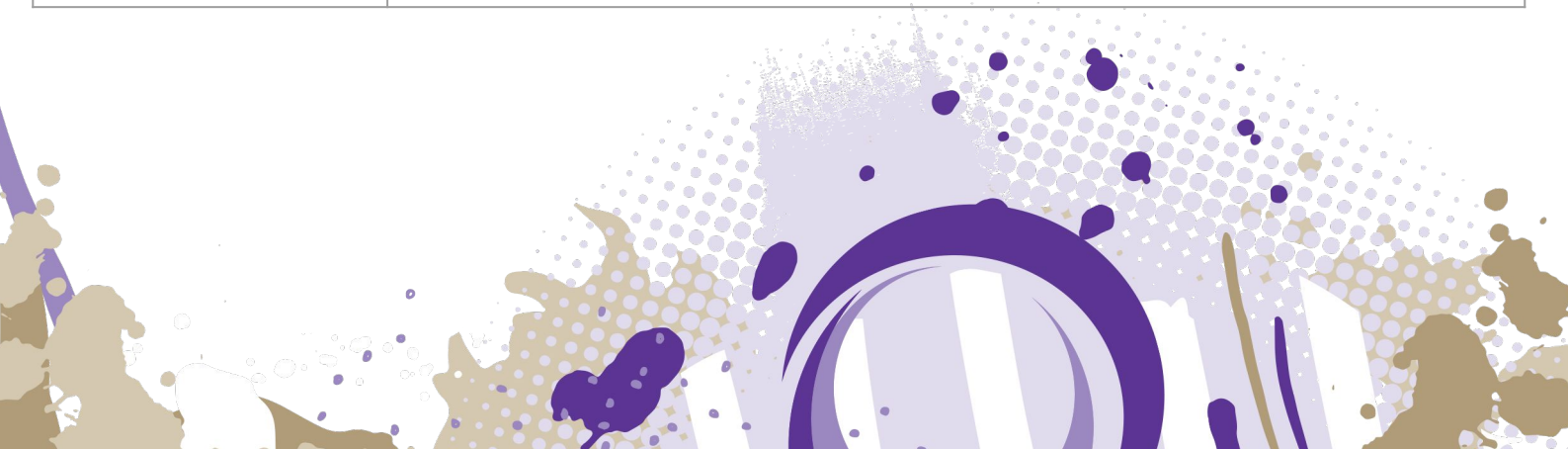


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## What are we studying?



Subject	This Term We are Studying...
Languages (French and Spanish)	<p><b>Theme 3 - School</b> <b>What school is like:</b></p> <ul style="list-style-type: none"><li>• School trips and events</li></ul> <p><b>Theme 4 Future aspirations, studies and work</b></p> <ul style="list-style-type: none"><li>• Continuing to study vs. other future projects</li><li>• Jobs and career choices</li><li>• Future plans</li><li>• Learning languages beyond the classroom</li></ul> <p><b>Theme 5 International &amp; global dimensions</b></p> <ul style="list-style-type: none"><li>• Talk about health and social campaigns</li><li>• sport and music events in TL countries</li><li>• Environmental issues and solutions</li><li>• Access to natural resources</li></ul>
Physical Education	<p><b>Competitive Sport / Healthy Active Lives</b></p> <p>Personal Fitness and Football.</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>
Music	<p><b>How do I begin to explore musical products and style?</b></p> <p>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><b>How do I develop my skills and techniques for a performance?</b></p> <p>Students will study a style, practitioner and text. They will see a live performance and explore, through workshops a range of skills and techniques used in the performance. They will then detail their understanding through written form, podcasts and video diaries. Students can express their understanding and knowledge through a range of mediums.</p>





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

