

Curriculum Overview for Year 8

<p>Writing</p> <ul style="list-style-type: none"> Is imaginative, adaptable to range of forms, conventions & audiences or purposes. Uses information, ideas and events which are skilfully managed and shaped to achieve intended purpose and effect. To craft individual paragraphs for imaginative or rhetorical effect. To write with a variety of sentence structures, across a whole text for achieve purpose and overall effect. To use consistent, imaginative vocabulary and accurate spelling. Punctuation is used ambitiously and accurately for different sentence types and direct speech is accurate. 	<p>English Reading</p> <ul style="list-style-type: none"> To select textual supportive points made and to embed them into analytical writing. To evaluate how structural choices, support a writer's purpose. To analyse language & consider how the writer's language contributes to the overall effect on the reader. To comment on the writer's viewpoint and purpose. To infer how characters may be linked to certain themes/ideas or how different text meanings and interpretations relates to context in which it is read or written. To evaluate the meaning & impact of a range of language features. 	<p>Speaking and Listening</p> <ul style="list-style-type: none"> To explore a wide range of subject matter with precision and effect when conversing and to manage and manipulate talk, to position the listener. To make generally apt, flexible choices of vocabulary, grammar and non-verbal features across different registers. To identify significant features of language and variation in own and impact of a range of others' discourse. Applying dramatic approaches with confidence when role-playing. 	<p>Art & Design</p> <ul style="list-style-type: none"> Pop art and artists. Silkscreen printing. Introducing to the medium of silk-screen printing through the artworks of Andy Warhol. Creating stencils for use in printing. Evaluating and analysing creative works using the language of art, craft and design Sketching and painting. Develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form and space 	<p>Computing</p> <ul style="list-style-type: none"> Internet safety focussing on phishing, spam, creating strong passwords, online photo manipulation to represent reality, research citations Understanding computers/physical computers inc. using BBC Bit mini computers for programing <ul style="list-style-type: none"> Online publishing Using search engines efficiently to research work Using the digital cloud Data representation and binary coding 		
<p>Number and Calculation</p> <ul style="list-style-type: none"> Round whole numbers to a positive integer power of 10, or decimals to the nearest whole number. Recall squares to 20x20, cubes to 5x5x5 and corresponding roots. Use known facts and place value to multiply and divide simple decimals. Solve simple word problems include direct proportion problems. Divide integers and decimals by single digit number and numbers with differing number decimal place Calculate squares, positive & negative square roots, cubes & cube roots. Simplify ratios, divide quantity into more than two parts in a given ratio 		<p>Mathematics Algebra and Geometry</p> <ul style="list-style-type: none"> Know letters play different roles in equations, formulae and functions Consolidate linear expressions. Express simple functions algebraically and in mappings. Understand congruency in relation to sides and angles. Know & understand hypotenuses. Find the midpoint of a line segment using its coordinates. Substitute positive and negative integers into formulae, linear expressions & those with indices. Solve geometric problems using angles, lines, triangles, and quadrilaterals. 	<p>Handling Data and Measures</p> <ul style="list-style-type: none"> Interpret & make scale drawings Construct & use frequency and two-way tables to record data. Consolidate static calculations. Know the meaning of p and 1-p. Draw and interpret stem-and-leaf diagrams and other charts & lines Use rulers and compasses to construct circles, arcs, right angled, isosceles and equilateral triangles. Define a circle, its parts and the formulae to calculate circumference and area. Compare proportions in two pie charts Consolidate experimental and theoretical probabilities. 	<p>Design & Technology</p> <ul style="list-style-type: none"> Eco design. Designing and making a new product prototype reusing waste items. Making Lanterns. Jewellery Design. Design and make a wire Jewellery to a given theme. Food catering. Producing a healthier meal Students <ul style="list-style-type: none"> consider factors such as the importance of a balanced diet, cost, availability, and health concerns. 	<p>Geography</p> <ul style="list-style-type: none"> Physical geography of a region- Africa Understanding Migration + Population. Current in the news. Human geography Energy resources Conservation. Define and describe renewable energy. Slavery. The Transatlantic Slave Trade, 15-18th centuries. Tracing the development of the French Revolution from the monarchy through to Napoleon Discussing abuses of power during the French Revolution 	<p>History</p>
<p>SCIENCE</p> <p>Biology</p> <ul style="list-style-type: none"> Plants: Photosynthesis and transport of water and minerals Food and digestion: Nutrients, balanced diet and digestion and absorption The circulatory system: Human circulatory system Respiration: Human respiratory system, keeping fit and health Reproduction and development: The human reproductive system, growth and development <p>Chemistry</p> <ul style="list-style-type: none"> States of matter: Particle theory, diffusion and gas pressure Elements and compounds: Atoms and elements, the Periodic Table and compounds Mixtures: Compounds and mixtures, separating mixtures and solubility Material changes: Physical and chemical change, rearranging atoms and detecting chemical change 		<p>Physics</p> <ul style="list-style-type: none"> Measuring motion: Speed, patterns of movement and distance-time graphs Sound: How sound travels, vibrations and hearing Light: Path of light, reflection and refraction Magnetism: Magnetic materials, electromagnets and magnetic fields <p>Scientific enquiry</p> <ul style="list-style-type: none"> developing empirical questions which can be investigated collecting evidence, developing explanations and using creative thinking. Select ideas and turn them into a form that can be tested. Plan investigations to test ideas. Use a range of equipment correctly. Discuss and control risks to themselves and others. Present results as appropriate in tables and graphs. Make simple calculations. Identify trends and patterns in results (correlations). Discuss explanations for results using scientific knowledge and understanding. 		<p>German</p> <ul style="list-style-type: none"> Argumentieren (Standpunkte aufgreifen, Meinung darlegen und begründen, Gegenargumente finden) und Diskutieren Eine Pro/Kontra Diskussion durchführen mit Diskussionsleitung (Sprecher) und Beobachter Argumentationen veranschaulichen: Metapher, Vergleiche, schildernde Passagen Kurze Referate als Grundlage für eine Diskussion 	<p>Music</p> <ul style="list-style-type: none"> Read notation in treble and bass clef independently Record independently own composition using music technology Use advanced rhythmic notation Learn and sing 3-part song 	
				<p>PSHE</p> <ul style="list-style-type: none"> Mental wellbeing Online Media Physical fitness-Healthy eating Families Changing adolescent body <p>Religious Education</p> <ul style="list-style-type: none"> RE foundation: Explore Main religions Festivals celebrated across world religions Symbols and actions across world religions Celebrating the fruitfulness of the Earth 	<p>Physical</p> <ul style="list-style-type: none"> Football Netball Hockey Basketball Health and fitness Gymnastics Dance Handball Athletics 	<p>Education</p>

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