

# Curriculum Overview for Year 8

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

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