



# Claughton St Mary's Catholic Primary School - Year 6 National Curriculum Subject Programmes of Study

<p style="text-align: center;"><b>Mathematics</b></p> <p><b>Number/Calculation</b></p> <ul style="list-style-type: none"> <li>✓ Secure place value &amp; rounding to 10,000,000, including negatives</li> <li>✓ All written methods, including long division</li> <li>✓ Use order of operations (not indices)</li> <li>✓ Identify factors, multiples &amp; primes</li> <li>✓ Solve multi-step number problems</li> </ul> <p><b>Algebra</b></p> <ul style="list-style-type: none"> <li>✓ Introduce simple use of unknowns</li> </ul> <p><b>Geometry &amp; Measures</b></p> <ul style="list-style-type: none"> <li>✓ Confidently use a range of measures &amp; conversions</li> <li>✓ Calculate area of triangles / parallelograms</li> <li>✓ Use area &amp; volume formulas</li> <li>✓ Classify shapes by properties</li> <li>✓ Know and use angle rules</li> <li>✓ Translate &amp; reflect shapes, using all four quadrants</li> </ul> <p><b>Data</b></p> <ul style="list-style-type: none"> <li>✓ Use pie charts</li> <li>✓ Calculate mean averages</li> </ul> <p><b>Fractions</b></p> <ul style="list-style-type: none"> <li>✓ Compare &amp; simplify fractions</li> <li>✓ Use equivalents to add fractions</li> <li>✓ Multiply simple fractions</li> <li>✓ Divide fractions by whole numbers</li> <li>✓ Solve problems using decimals &amp; percentages</li> <li>✓ Use written division up to 2dp</li> <li>✓ Introduce ratio &amp; proportion</li> </ul>	<p style="text-align: center;"><b>English</b></p> <p><b>Reading</b></p> <ul style="list-style-type: none"> <li>✓ Read a broad range of genres</li> <li>✓ Recommend books to others</li> <li>✓ Make comparisons within/across books</li> <li>✓ Support inferences with evidence</li> <li>✓ Summarising key points from texts</li> <li>✓ Identify how language, structure, etc. contribute to meaning</li> <li>✓ Discuss use of language, inc. figurative</li> <li>✓ Discuss &amp; explain reading, providing reasoned justifications for views</li> </ul> <p><b>Writing</b></p> <ul style="list-style-type: none"> <li>✓ Use knowledge of morphology &amp; etymology in spelling</li> <li>✓ Develop legible personal handwriting style</li> <li>✓ Plan writing to suit audience &amp; purpose; use models of writing</li> <li>✓ Develop character &amp; setting in narrative</li> <li>✓ Select grammar &amp; vocabulary for effect</li> <li>✓ Use a wide range of cohesive devices</li> <li>✓ Ensure grammatical consistency</li> </ul> <p><b>Grammar</b></p> <ul style="list-style-type: none"> <li>✓ Use the passive voice for purpose</li> <li>✓ Use features to convey &amp; clarify meaning</li> <li>✓ Use full punctuation</li> <li>✓ Use language of subject/object</li> </ul> <p><b>Speaking &amp; Listening</b></p> <ul style="list-style-type: none"> <li>✓ Use questions to build knowledge</li> <li>✓ Articulate arguments &amp; opinions</li> <li>✓ Use spoken language to speculate, hypothesise &amp; explore</li> <li>✓ Use appropriate register &amp; language</li> </ul>	<p style="text-align: center;"><b>Religious Education</b></p> <p style="text-align: center;">Continue to follow Diocesan Locally - agreed syllabus for RE</p>
		<p><b>Computing</b></p> <ul style="list-style-type: none"> <li>✓ Design &amp; write programs to solve problems</li> <li>✓ Use sequences, repetition, inputs, variables and outputs in programs</li> <li>✓ Detect &amp; correct errors in programs</li> <li>✓ Understand uses of networks for collaboration &amp; communication</li> <li>✓ Be discerning in evaluating digital content</li> </ul>
		<p><b>History</b></p> <p><b>British History</b></p> <ul style="list-style-type: none"> <li>✓ An extended period study, e.g. - The changing power of monarchs</li> <li>- Significant turning points in British history</li> <li>- Crime &amp; punishment</li> <li>- Leisure</li> </ul> <p><b>Broader History Study</b></p> <ul style="list-style-type: none"> <li>✓ Non-European society, i.e. - Islamic civilization, including Baghdad</li> <li>- Mayan civilization</li> <li>- Benin (West Africa)</li> </ul>
<p style="text-align: center;"><b>Music</b></p> <ul style="list-style-type: none"> <li>✓ Perform with control &amp; expression solo &amp; in ensembles</li> <li>✓ Improvise &amp; compose using dimensions of music</li> <li>✓ Listen to detail and recall aurally</li> <li>✓ Use &amp; understand basics of staff notation</li> <li>✓ Develop an understanding of the history of music, including great musicians &amp; composers</li> </ul>	<p style="text-align: center;"><b>Design &amp; Technology</b></p> <ul style="list-style-type: none"> <li>✓ Use research &amp; criteria to develop products which are fit for purpose</li> <li>✓ Use annotated sketches and prototypes to explain ideas</li> <li>✓ Evaluate existing products and improve own work</li> <li>✓ Use mechanical systems in own work</li> <li>✓ Understand seasonality; prepare &amp; cook mainly savoury dishes</li> </ul>	<p style="text-align: center;"><b>Modern Languages (French)</b></p> <ul style="list-style-type: none"> <li>✓ Listen &amp; engage</li> <li>✓ Engage in conversations, expressing opinions</li> <li>✓ Speak in simple language &amp; be understood</li> <li>✓ Develop appropriate pronunciation</li> <li>✓ Present ideas &amp; information orally</li> <li>✓ Show understanding in simple reading</li> <li>✓ Adapt known language to create new ideas</li> <li>✓ Describe people, places &amp; things</li> <li>✓ Understand basic grammar, e.g. gender</li> </ul>
<p style="text-align: center;"><b>Physical Education</b></p> <ul style="list-style-type: none"> <li>✓ Use running, jumping, catching and throwing in isolation and in combination</li> <li>✓ Play competitive games, modified as appropriate</li> <li>✓ Develop flexibility &amp; control in gym, dance &amp; athletics</li> <li>✓ Compare performances to achieve personal bests</li> <li>✓ Swimming proficiency 25m</li> </ul>	<p style="text-align: center;"><b>Art &amp; Design</b></p> <ul style="list-style-type: none"> <li>✓ Use sketchbooks to collect, record and evaluate ideas</li> <li>✓ Improve mastery of techniques such as drawing, painting and sculpture with varied materials</li> <li>✓ Learn about great artists, architects &amp; designers</li> </ul>	<p style="text-align: center;"><b>Science</b></p> <p><b>Biology</b></p> <ul style="list-style-type: none"> <li>✓ Classification, including micro-organisms</li> <li>✓ Health &amp; Lifestyles, incl. circulatory system</li> <li>✓ Evolution &amp; Adaptation</li> </ul> <p><b>Physics</b></p> <ul style="list-style-type: none"> <li>✓ Light &amp; Shadows; the eye</li> <li>✓ Forces, including gravity</li> <li>✓ Electricity: investigating circuits</li> </ul>
		<p><b>Geography</b></p> <ul style="list-style-type: none"> <li>✓ Name &amp; locate counties, cities, regions &amp; features of UK</li> <li>✓ Understand latitude, longitude, Equator, hemispheres, tropics, polar circles &amp; time zones</li> <li>✓ Study a region of Europe, and of the Americas</li> <li>✓ Understand biomes, vegetation belts, land use, economic activity, distribution of resources, etc.</li> <li>✓ Use 4- and 6-figure grid references on OS maps</li> <li>✓ Use fieldwork to record &amp; explain areas</li> </ul>