

## Holy Family RC Primary School: Maths

**“For which of you, desiring to build a tower, does not first sit down and count the cost, whether he has enough to complete it?” Luke 14:28**

<b>Aim</b>	<p><b>“Mathematics is an integral part of every school curriculum. It also unlocks the door to further study and employment in a vast range of fields” Ofsted 2021</b></p> <p>The aim of our maths curriculum is to provide students with a solid foundation in mathematical knowledge, skills, and understanding. We strive to develop pupil’s mathematical fluency, problem-solving abilities, and critical thinking skills. By fostering a positive attitude towards mathematics and providing a solid mathematical grounding, our maths curriculum aims to empower pupils to thrive academically, develop lifelong mathematical skills, and be prepared for the challenges of secondary education and beyond.</p>
<b>Overview</b>	<p>In studying maths, pupils will become confident mathematicians by following a mastery maths curriculum. Pupils will experience the Big 5 principles of mastery.</p> <p><u>1. Coherence</u> This ensures that mathematical concepts are presented in a logical and interconnected manner, allowing students to build a strong foundation of knowledge.</p> <p><u>2. Representation and Structure</u> This emphasises the use of visual and concrete materials to aid understanding and facilitate the exploration of mathematical relationships.</p> <p><u>3. Mathematical Thinking</u> This encourages students to think deeply, reason, and problem-solve, promoting critical and creative thinking skills.</p> <p><u>4. Fluency</u> This emphasises the importance of developing procedural fluency alongside conceptual understanding, enabling students to efficiently and accurately apply mathematical skills.</p> <p><u>5. Variation</u> This exposes students to a range of problem types and contexts, encouraging them to generalize their understanding and develop a flexible approach to problem-solving.</p>
<b>Implementation</b>	<p>In maths, we are committed to delivering a mathematics curriculum that embraces the principles of mastery, ensuring that all pupils develop a deep and secure understanding of mathematical concepts. We believe that every pupil has the potential to excel in mathematics, and our aim is to nurture their mathematical abilities and equip them with the tools needed to become confident problem solvers.</p> <p>Through the mastery approach, we provide ample opportunities for students to explore mathematical ideas, make connections, and develop fluency in fundamental skills. Our curriculum emphasises the importance of developing a solid conceptual understanding before moving on to more complex topics. Pupils build on their prior knowledge and explore different strategies, fostering a growth mind-set and a willingness to tackle challenging problems.</p>

	<p>Our curriculum is designed to promote mathematical thinking, reasoning, and problem-solving skills, enabling our students to apply their knowledge in practical and real-world contexts.</p> <p>Through our carefully sequenced curriculum, targeted support, and engaging teaching strategies, we strive to equip our students with the necessary mathematical toolkit to navigate the challenges of the subject and excel in their future academic.</p>
EYFS	<p>In the Early Years, pupils will develop their understanding of how a numbers refers to the quantity. They will learn to count confidently, develop a deeper understanding of how the numbers to 10 can be made up from smaller numbers as well as how to carry out simple addition and subtraction calculations.</p>
KS1	<p>In Key Stage 1, the pupils will follow the school curriculum which is mapped out to ensure progression from the Early Years. The pupils will develop greater understanding of fluency, through varied and regular practice increasingly the complexity of problems over time. They will learn how to carry out more complex addition and subtraction calculations as well as begin to understand the relationship between multiplication and division. The pupils will also develop their ability to articulate, discuss and explain their thinking using appropriate mathematical vocabulary. At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes.</p>
KS2	<p>In Key Stage 2, the pupils become increasingly more fluent in the fundamentals of mathematics, including developing the ability to recall and apply knowledge rapidly and accurately. Pupils should be able to follow a line of enquiry, making predictions or evaluations using mathematical vocabulary. Pupils should be able to solve more complex problems by applying their mathematics skills to the problem. The pupil's understanding and ability to articulate the properties of shapes and angles as measurement progresses throughout Key Stage 2 along with their ability to use reasoning and problem solving skills in context. Pupils will use their mathematical skills effectively in other curriculum subjects.</p>
Impact	<p>By the end of Year 6, pupils will have the foundational knowledge and skills acquired to provide a solid platform for secondary education and beyond. Pupils will be well-prepared for the demands of more advanced mathematical concepts and are more likely to continue their mathematical journey with enthusiasm and confidence.</p> <p>The pupils will be able to tackle complex problems with confidence and accuracy. They will have developed strong reasoning and problem-solving skills, allowing them to analyse and apply their mathematical knowledge to real-world scenarios.</p>