Holy Family Catholic Primary School
Year 6/5 Maths Long Term Plan and Autumn Term Overview

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn term	Number: Place value			Number: Addition and subtraction		Number: Multiplication and division			Number: Fractions A			
Autumn term	Number: Place value			Number: Four operations				Number: Fractions A	Number: Fractions B		Measurement: Converting units	
Spring term	Number: Multiplication and division			Number: Fractions B		Number: Decimals and percentages			Measurement: Perimeter and area		Statistics	
Spring term	Number: Ratio			Number: Algebra		Number: Decimals		Number: Fractions, decimals and percentages	Measurement: Area, perimeter and volume		Statistics	
Summer term	Geometry: Shape			Geometry: Position and direction		Number: Decimals			Number: Negative numbers	Measurement: Converting units		Measurement: Volume
Summer term	Geometry: Shape			Geometry: Position and direction		Themed projects, consolidation and problem solving						

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Year 6/5 – Autumn Term					
Number: Place Value		**Number: Addition and Subtraction**		**Number: Multiplication and Division**	
Year 5	**Year 6**	**Year 5**	**Year 6**	**Year 5**	**Year 6**
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. Read, write, order and compare numbers to at least 1 000 000 10 000 000 and determine the value of each digit **Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000** Round any number up to 1 000 000/ any whole number to the nearest 10, 100, 1000, 10 000 and 100 000 /to a required degree of accuracy Solve number and practical problems that involve all of the above. Use negative numbers in context, and calculate intervals across zero Solve number problems and practical problems that involve all of the above		Add and subtract numbers mentally with increasingly large numbers Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Use rounding/estimation to check answers to calculations and determine, in the context of a problem, levels of accuracy/ an appropriate degree of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Solve problems involving addition and subtraction		Identify common multiples and common factors, including finding all factor pairs of a number, and common factors of two numbers Identify prime numbers Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers Establish whether a number up to 100 is prime and recall prime numbers up to 19 Recognise and use square numbers and cube numbers, and the notation for squared (^{2}) and cubed (^{3}) Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000 Multiply and divide numbers mentally drawing upon known facts Multiply multi-digit numbers up to 4 digits by a one – or two-digit whole number using the formal written method of long multiplication for two-digit numbers Perform mental calculations, including with mixed operations and large numbers Divide numbers up to 4 digits by a one digit/two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context Use their knowledge of the order of operations to carry out calculations involving the four operations Solve problems involving multiplication and division	

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Year 6/5 – Autumn Term		
Number: Fractions		**Measurement: Converting units**
Year 5	**Year 6**	**Year 6**
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number [for example, 2/5 + 4/5 = 6/5 = 1 2/5] Add and subtract fractions with the same denominator and denominators that are multiples of the same number / with different denominators and mixed numbers, using the concept of equivalent fractions Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, whose denominators are all multiples of the same number, including fractions > 1 *Identify common factors, common multiples and prime numbers* *Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why* *Solve problems involving addition, subtraction, multiplication and division* Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams (Y5) Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ × ½ = 1/8] Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6] Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 1/8]		Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places