Holy Trinity and S.Silas
Maths Curriculum Overview
Year 4

Number: Number and Place Value

Counting			Understanding place value	Reading and Writing numbers	Identifying, representing and estimating numbers	Comparing numbers	Problem solving
Count in multiples of 6,7,9,25 and 100	Find 100 more or less than a given number	Count backward through zero to include negative numbers	Recognise the place value of each digit in a four digit numbers (1000s 100s, 10s, 1s)	Read Roman numerals to 100 (I-C) and know that over time, the numeral system changed to include the concept of zero and place value	Identify, represent and estimate numbers using different representations	Compare and order numbers beyond 1000	Solve number problems and practical problems involving these ideas and with increasingly large positive numbers

Number: Addition and Subtraction

Written Calculation	Inverse, estimating and checking answers	Problem solving
Add and subtract numbers with up to 4 digits using the formal written methods of column addition and subtraction where necessary	Estimate and use inverse operations to check answers to a calculation	Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why

Number: Multiplication and Division

Mental Calculation			Written Calculation	Inverse, estimating and checking answers
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 1; multiplying together 3 numbers	Use table facts to divide 2 and 3 digit numbers to give answers between 20-50 without remainders	Recognise and use factor pairs and commutativity in mental calculation	Multiply 2-digit and 3-digit numbers by a one-digit number using formal written layout	Estimate and use inverse operations to check answers to a calculation

Multiplication and Division facts		Properties of numbers	Problem solving	
Count in multiples of 6,7,9,25 and 1000	Recall multiplication facts for tables up to 12x12	Recognise and use factor pairs and commutativity in mental calculations	Solve problems involving multiplying and adding, including using the distributive law to multiple 2-digit numbers by 1-digit numbers, integer scaling problems and harder correspondence problems such as 'n' objects are connected to 'm' objects (for example, 3 hats and 4 coats, how many different outfits?; 12 different sweets shared equally between 4 children)	Look for patterns and write rules

Number: Fractions and Decimals

Counting	Recognising fractions	Comparing decimals	Rounding	Equivalence		
Count up and down in hundredths	Recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten	Compare numbers with the same number of decimal places up to two decimal places	Round decimals with one decimal place to the nearest whole number	Recognise and how using diagram, families of common equivalent fractions	Recognise and write decimal equivalents of any number of tenths or hundredths	Recognise and write decimal equivalents to ¼. ½ and ¾

Addition and subtraction		Multiplication and Division		Problem solving	
Add and subtract fractions with the same denominator		Find effect of dividing a one or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths		Solve simple measure and money problems involving fractions and decimals to two decimal places	Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number

Measurement

Comparing and estimating	Measuring and calculating, including money			Telling the time	
Estimate, compare and calculate different measures including money in pounds and pence	Find the area of rectilinear shapes by counting squares	Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres	Convert between different units of measure, for example, kilometre to metre, hour to minute	Read, write and convert time between analogue and digital 12 hour and 24 hour clocks	Solve problems involving converting from hours to minutes, minutes to second, years to months, weeks to days

Geometry

Properties of shape				Position and direction		
Identifying properties	Comparing and classifying	Drawing and constructing	Angles	Position direction and movement		
Identify lines of symmetry in 2D shapes presented in different orientations	Compare/classify geometric shapes, including quadrilateral and triangles, based on their properties/sizes	Complete a simple symmetric figure with respect to a specific line of symmetry	Identify acute and obtuse angle up to two right angles by size	Describe positions on a 2-D grid as coordinates in the first quadrant	Describe movements between positions as translations of a given unit to the left/right and up/down	Plot specified points and draw sides to complete a given polygon

Statistics

Interpreting, constructing and representing data

Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs	Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs