Year Five: An overview of what your child will be taught in Maths

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Year 5 Autumn Term	Number and Place Value •Read, write, order and compare numbers to 1000,000 and state the value of each digit •Count forwards and backwards in powers of from any given number up to 1000,000-e.g. 30 4000 •Interpret negative numbers in context-e.g. temperature •Count forwards and backwards with positive and negative whole numbers including throug zero •Round any number up to 1000,000 to the nearest 10, 100, 1000, 10,000 and 100,000 •Solve number and practical problems all of the above •Read Roman numerals up to 1000 (M) and recognise years written in Roman numerals.		Number: Addition and Subtraction • Add and subtract numbers mentally with increasingly large numbers • Add and subtract whole numbers with more than 4 digits, including using formal column method • Use rounding to check answers to calculations and check levels of accuracy • Solve addition and subtraction multi-step problems in contexts deciding which operations to use and why	Statistics •Solve comparison, sum and difference problems using a line graph •Compete, read and interpret information in tables including timetables	•Multiply and divide who •Identify multiples and fa common factors of two m factors of 20 are 1,2,4,5,2 •Recognise and use squa because it is created by m •Recognise and use cube three times-3x3x3=27 (27 •Use appropriate notatio •Solve problems involvin involving factors, multiple the vocabulary of prime in (non-prime) numbers	nbers mentally using known facts ole numbers by 10,100 and 1000 actors, including finding all factor pairs and numbers-e.g. factors of 10 are 1,2,5 and 10 10 and 20 Common factors are 1,2,5 and 10 re numbers-e.g. 25 is a square number nultiplying a number by itself-5x5 ed numbers-e.g. a number multiplied by itself 7 is a cubed number) on for both squared and cubed numbers g multiplication and division, including those es, squared and cubed numbers. Know and use numbers, prime factors and composite mber up to 100 is prime and recall prime	Measurement: Area and Perimeter • Measure and calculate the perimeter of a rectilinear shape in cm and m • Calculate and compare the area of rectangles (including squares) and including using standard units of measure cm2 and m2 • Estimate the area of irregular shapes
Year 5 Spring Term	 Number: Multiplication and Division Multiply and divide numbers mentally using known facts Multiply numbers up to 4 digits by a one or two-digit numbers using formal written methods, including long multiplication for 2 digits. Divide numbers up to 4 digits by a 1-digit number using formal written methods of short division (bus stop) and interpret remainders in the context of a question Solve problems involving addition, subtraction, multiplication and division 	Number: Fractions•Compare and order fractions whose denominators are multiples of the same number-e.g %, 5/8 and 8/12•Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.•Recognise mixed numbers and improper fractions and convert between them-e.g. 8/6 is 1 2/6•Add and subtract fractions with the same denominator and denominators that are multiples of the same number-e.g. 4/5 +3/5=7/5 or 3/5 + 4/10 =10/10 or 1 whole number•Multiply proper fractions (numerator is smaller than denominator) and mixed numbers by whole numbers supported by equipment and images •Read and write decimal numbers as fractions-e.g. 0.71 is 71/100•Solve problem involving multiplication and division, including scaling by simple fractions•Solve problem involving multiplication and division, including scaling by simple fractions					
Year 5 Summer Term	Number: Decimals • Recognise and write decimals equivalents of any number of tenths or hundredths-e.g. 78 hundredths is 0.78 • Find the effect of dividing a one or two-digit number by 10 or 100, identifying the value of each digit in the answer as ones, tenths and hundredths • Solve simple money and measure problems involving fractions and decimals to two decimal places • Convert between different units of measure-e.g. km to m	 Identifirepresent Use the angles. Know the using an extreme know a acute, o Draw generative langles and langle	netry: Properties of Shape ntify 3D shapes, including cubes and cuboids from 2D esentations the properties of rectangles to find missing lengths and es. w the difference between regular and irregular polygons by g an understanding of equal length lines and angles w angles are measured in degrees: estimate and compare e, obtuse and reflex angles w given angles and measure them in degrees ntify: angles at a point and one whole turn (360 degrees), es at a point on a straight line and a ½ turn (180 degrees) r multiples of 90 degrees		Geometry: Position and Direction • Identify, describe and represent the position of a shape following a reflection or translation using appropriate language	Measurement: Converting Units • Convert between different units of metric measure (for example, km to m, cm to m, cm to mm, g to kg and ml to litres) • Understand and use approximate equivalents between metric units and common imperial units such as inches, pounds and pints • Solve problems involving converting between units of time	Measurement: Volume •Estimate volume (using 1cm cubes to build cuboids) and capacity (using measuring cylinders) •Use all four operations to solve problems involving measure