	Year 5 Maths														
Ter m	Autumn 1		Autumn 2			Spring 1			Spring 2	oring 2 Sun		nmer 1		Summer 2	
Торіс	Place Value (4 weeks)	Addition and Subtraction (3 weeks)	Statistics (1 week)	Shape and angles (2 weeks)	Multiplication and division (3 week)	Position and direction (2 week)	Decimals (2 weeks)	Fractions (2 week)	Multiplication and division (2 week)	Fractions and decimals (2 wpeks)	Measurement (3 weeks)	Problem Solving (1 week)	Negative numbers (2 weeks)	Percentages (1 week)	Converting units 2 weeks and consolidation and objectives recovering
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Objectives	Read, write, order and compare numbers to at least 1000000 and determine the value of each digit Count forwards or backwards in steps of powers of 10 for any given number up to 1000000 Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including hrough zero Round any number up to 1000000 to the nearest 10, 100, 1000, 10000 and 100000 Solve number problems and practical problems that involve all of the above Read roman numerals to 1000(M) recognise years written in Roman numerals	Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction) Add and subtract numbers mentally with increasingly large numbers Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why	Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables, including timetables	Identify 3-D shapes, including cube and other cuboids, from 2-D representations  Know angles are measured iin degrees; estimate and compare acute, obtuse and reflex angles  Draw given angles and measure them in degrees  Use the properties of rectangles to deduce related facts and find missing lengths and angles  Distinguish between regular and irregular polygons based on reasoning about equal sides and anglesdentify:  Angles at a point and one whole turn (total 360')  Angles at a point on a straight line and % a turn (total 180')  Other multiples of 90'	Identify multiples and factors, including finding all factor pairs of a numbe, and common factors of two numbers  Know and use the vocabulary of prime numbers, prime factors and composite (non-oprime) numbers  Establish whether a number up to 100 is prime and recall numbers up to 19  Multiply numbers up to 4 digits by a one- or two-digit number using formal written method, including long multiplication for two-digit numbers  Multiply and divide numbers mentally drawing upon known facts  Divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context	Identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed  Find and show an understanding of Lines of symmetry  Reflection of horizontal and vertical lines	Decimals up to 2 places Equivalent fractions and decimals – tenths and hundredths, equivalent fractions and decimals Thousandths as fractions and decimals, and on a place value chart Order and compare up to 3 decimal places	ldentify, 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 (e.g. 2/5 + 4/5 = 6/5 = 11/6)  Add and subtract fractions with the same denominator and denominators that are multiples of the same number  Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams  Read and write decimal numbers as fractions (e.g. 0.71 = 71/100)  Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents	Multiply and divide whole numbers and those involving decimals bby 10, 100and 1000  Recognise and use square numbers and cube numbers, and the notation for squared (2) and cubed (3)  Solve problems involving addition, subtraction, multiplication and division and a combination of these, including understanding the meaning of the equal's sign solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	Round decimals with two decimal places to the nearest whole number and to one decimal place  Read, write, order and compare numbers with up to three decimal places  Solve problems involving number up to three decimal places  Recognise the per cent symbol (%) and understand that per cent relates to 'number of parts per hundred' and write percentages as a fraction with denominator 100, and as a decimal  Compare and order fractions whose denominators are all multiples of the same number  Solve problems which require knowing percentage and decimal equivalents of ½, ¼, 1/5, 2/5, 4/5 and those with a	Estimate volume (e.g. using 1cm² blocks to build cuboids (including cubes)), and capacity (e.g. using water) Calculate and compare the are of rectangles (including squares) and including using standard units, square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes Convert between different units of metric measure (e.g. km, m, cm and m, cm and mm, g and kg, I and mI) Understand and use approximate equivalences between metric units and common imperal units such as inches, pounds and pints Measure and calculate the perimeter of composite rectilinear shapes in cms and m	Solve problems involving x and $+$ , including using their knowledge factors multiplex squares and cubes	Understand negative numbers  Count through zero in 1s and in multiples  Compare and order negative numbers  Find the difference with negative numbers	Percentages as fractions, decimals Equivalent fractions and decimals and percentages	Convert between metric and imperials Convert units of time, units of length, Kg and km, Mm and ml Calculate with timetables Solve problems involving converting between units of time Use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimals notation including scaling.