Year 5 Maths Medium Term Plan 2021

	Week 1 6th Sept	Week 2 13th Sept	Week 3 20th Sept	Week 4 27th Sept	Week 5 4th Oct	Week 6 11th Oct	Week 7 18th Oct
Term 1	Number and place value To represent 6 digit numbers (to 1 000 000) (concrete- place value counters). To recognise the place value of each digit in a six digit number. To compare & order numbers to at least 1 000 000 To understand decimals and fractions (Revising in Term 6) Recognise thousandths and relate them to tenths, hundredths and decimal equivalents.	Addition and Subtraction To add four digit numbers (regrouping in the 1000s, 100s, 10s and 1s) To identify common misconceptions in column addition To subtract four digit+ numbers (regrouping in the 1000s, 100s, 10s and 1s) To identify common misconceptions in column subtraction	Multiplication & division Divide whole numbers by 10,100 and 1000 Divide decimals by 10, 100 and 1000 To divide by powers of 10 (in scale drawings). To divide by powers of 1000 (in converting between units such as km and m) To multiply whole numbers& decimals by 10, 100, 1000	Multiplication and division To solve problems involving multiplication. To multiply numbers up to four digits by a one digit number To multiply numbers up to four digits by a two digit number Divide numbers up to 4 digits by a one digit number (with remainders)	4 operations To solve multistep word problems using the bar model. Solve problems involving number up to three decimal places. To find the missing value.	Measure – Time To solve problems involving converting units of time	Measure – Time To solve problems involving converting units of time
Term 2	1st Nov Fractions, decimals and percentages. To identify equivalent fractions (including tenths and hundredths) To compare and order fractions (whose denominators are multiples of the same number)	8th Nov Fractions, decimals and percentages. To calculate fractions of numbers and quantities. Read and write decimal numbers as fractions.	15th Nov Geometry-properties of shape To identify 2D shapes. To identify 3-D shapes from 2-D representations (including cubes and other cuboids). To sort regular and irregular polygons. To estimate and compare angles. (obtuse, acute, reflect, right angle)	22nd Nov Measurement-length and mass To convert between different units of metric measure. To measure and calculate the perimeter of composite rectilinear shapes. To calculate and compare the area of rectangles. (cm^2 and m^2) To estimate the area of irregular shape.	29th Nov Measurement-volume and capacity To estimate and measure capacity. To estimate volume.	6th Dec 4 operations volume, capacity, length and mass. To solve multistep word problems using the bar model. To find the missing value. To use all four operations to solve problems involving measure. To solve missing measure questions when presented algebraically.	12th Dec *Statistics* To solve comparison problems using information in a line graph. To solve sum problems using information in a line graph. To solve difference problems using information in a line graph.
Term 3	5th Jan (3 days) Number and place value *To recognise and describe linear number sequences.*	10th Jan Number and place value To round off numbers to the nearest 10.	17th Jan Multiplication and division To know prime numbers, prime factors and composite numbers.	24th Jan Fractions, decimals and percentages. To add and subtract fractions with the same denominator (see year 4)	31st Jan Fractions, decimals and percentages. To convert mixed numbers to improper fractions (and back)	7th Feb Fractions, decimals and percentages. To multiply fraction and mixed numbers by	

	<u>To find the term-to-term rule</u> *To interpret negative numbers. Counting forward and backward.* *To round numbers to the nearest 10, 100, 1000, 10 000 and 100 000 (To round appropriately in context see division strand)*	To round off numbers to the nearest 100. To round decimals with 2d.p to the nearest whole number. Or to one decimal place. Addition and subtraction To subtract decimals up to 2 decimal places. To subtract money using the column method To add decimals up to 2 decimal places To add money using the column method To use part, part whole to add money (will review in term 4, week 1)	To recognise and use squared and cubed numbers To identify common factors of two numbers. To use number bonds for factor and products and to identify missing factors (using fractions and decimals)	To add and subtract fractions with denominators that are multiples of the same number.	Measurement length and mass To use multiplication and division to inter scale and calculate changing rates.	a whole number. (use diagrams to support)	
Term 4	21sr Feb (4 days) Measure-money *<u>To use part, part whole to add money</u>*	*28th Feb* Four operations To solve multistep word problems using the bar model. To find the missing value.	7th March *Measurement time* To solve problems involving converting units of time	14th March Geometry –position and direction To reflect the position of a shape To reflect the position of a shape in all four quadrants (extension) To translate the position of a shape To translate the position of a shape in all four quadrants (extension)	21st March Geometry –properties of shape. To draw given angles and measure them in degrees. (using a protractor) To identify angles at a point and one whole turn. To identify angles at a point on a straight line. To identify missing lengths and angles. (using angle sum facts)	28th March Multiplication of division Reviewing skills of: To multiply numbers up to four digits by a one digit number To multiply numbers up to four digits by a two digit number Divide numbers up to 4 digits by a one digit number (with remainders)	
Term 5	19th April (4 days) Number and place value *<u>To count in steps of powers of 10 up to 1 000 000 Read Roman numerals (See progression year 4)</u>* *<u>To solve problem including all of the above.</u>*	25th April Addition and subtraction To subtract measures using the column method. To add measures using the column method. To solve multistep word problems using the bar model. To add and subtract decimals	2nd May (4days) Multiplication and division To understand the law of distributivity To use the distributive property strategy to divide 'friendly' numbers. To interpret remainders appropriately for the context (rounding up or down- see year 6 exemplification) To interpret non-integer answers to division by	9th May Fractions, decimals and percentages Recognise thousandths and relate them to tenths, hundredths and decimal equivalents. Read and write decimal numbers as fractions.	16th May Fractions, decimals and percentages To know that a percent means out of 100 & percent symbol. Write percentages as a fraction with denominator 100. Write percentages as a decimal. Solve problems which require knowing percentage and decimal equivalence of ½, ¼, 2/5/, 4/5 and those	23rd May Statistics To complete, read and interpret information in tables (including time tables) To make links with coordinates To choose the appropriate representations of data.	

			expressing results in different ways		fractions with a denominator of 10 or 25. To convert fractions to percentages		
Term 6	7th June (4 days) *Geometry-position and direction* To use a 2-D grid and coordinates in the first quadrant To use a 2-D grid and coordinates in all four quadrants. (extension) Revision of translation.	*13th June* *Geometry properties of shape* To draw lines to the nearest mm. To label parallel lines and right angles. To identify and use diagonal and parallel lines. Use the properties of rectangles to deduce related facts and find missing lengths and angles.	*20th June* Measurement-volume and capacity To measure and calculate the perimeter of composite rectilinear shapes	27th June Measurement length and mass To use approximate equivalences between metric and imperial units. To use multiplication and division to inter scale and calculate changing rates. Review metric measures.	4th July Measurement-money To solve problems involving money using the four operations.	11th July Four operations (measurement) To use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.	18th July Four operations (measurement) To use all four operations to solve problems involving measure (for example, length, mass, volume, money) using decimal notation, including scaling.

Throughout (and when children are ready): To use the bar model to represent word problems, Problem solving (4 types)