Year 5 Long term plan 2022-23

	Autumn 1		Autumn 2		Spring 1		Spring 2		Summer 1		Summer 2
1	**Place value** Partitioning Read & write numbers Ordering numbers Greater than/less than Rounding whole numbers	1	**Multiplication and division** Long multiplication Multiplication PS/R Division Division PS/R x/÷ whole numbers by 10,100,1000	1	**Place value** Comparing and ordering numbers up to 1 million Decimals up to 2dp Rounding decimals Understand thousandths Order decimals Compare decimals Decimal sequences	1	**Multiplication and division** Common factors Prime numbers and prime factors Square and cube numbers Mental strategies for x Long multiplication Multiplication PS/R Division Division PS/R Multiply decimals by 10, 100, 1000 Divide decimals by 10, 100, 1000	1	**Fractions** Add 3 or more fractions Add mixed numbers Subtract mixed numbers Subtraction breaking the whole Subtract 2 mixed numbers Multiply unit fractions by an integer Multiply non-unit fractions by an integer Multiply mixed numbers by integers Fractions of an amount Decimals as fractions Percentages FDP equivalence	1	**Measure – length, mass , volume** Imperial units What is volume? Estimate volume estimate capacity
2	Powers of 10 Negative numbers Roman numerals	2				2				2	**Measure -perimeter, area** Perimeter of rectilinear shapes Area of compound shapes Area of irregular shapes Area and perimeter PS
3		3	**Fractions** What is a fraction? Equivalent fractions Equivalent fractions Bar modelling Fractions greater than 1	3	**Addition and subtraction – decimals** Fluency recap- methods +/- Add decimals within 1 Subtract decimals within 1 Complements to 1 Adding decimals -crossing the whole Adding decimals with the same number of decimal places Subtracting decimals with the same number of decimal places Adding decimals with a different number of decimal places Subtracting decimals with a different number of decimal places Adding and subtracting decimals with the same number of decimal places PS Adding and subtracting wholes and decimals	3		3		3	**Measure – time** Telling the time Converting units of time Timetables PS
4	**Addition and subtraction inc money** Addition calculations Addition problem solving/Reasoning Decimal addition (money) Money PS/R	4	**Assessment & consolidation week**	4		4	**Assessment & consolidation week**	4	**Geometry – shape** Measuring angles with a protractor Drawing lines and angles accurately Calculating angles on a straight line Calculating angles around a point	4	**Assessment & consolidation week**
5	Subtraction calculations Subtraction PS/R Decimal subtraction (Money) Decimal subtraction PS/R Multi step PS money +/-	5	**Fractions** Improper fractions to mixed Mixed numbers to improper fractions Mixed numbers to improper fractions Number sequences Compare fractions less than 1 Order fractions less than 1 Compare fractions greater than 1. Order fractions greater than 1. Add and subtract fractions within 1	5		5	**Measure – length, mass** Kilograms and grams Millilitres and litres Cm/mm/m Compare and convert metric units	5	**Geometry – position and direction** Co-ordinates 1st and 2nd quadrant Reflection Translation Translation with co-ordinates	5	**Statistics** Read and interpret line graphs Draw line graphs Use line graphs to solve problems Read and interpret tables
6	**Multiplication and division** Multiples Factors Prime/composite Prime factors Square numbers	6		6	**Geometry – position and direction** Co-ordinates 1st quadrant Reflection Reflection with co-ordinates Translation	6	**Measure -perimeter, area** Perimeter on a grid Perimeter of rectangles Calculate perimeter Area of rectangles	6	**Consolidation**	6	**Consolidation**
7	Cube numbers Short multiplication	7		7		7		7		7	**Consolidation**
8		8	**Consolidation**	8		8		8		8	
	Mega maths – Geometry - Shape				**Mega maths – data and statistics**				**Mega maths - TBC**		