



Year 5 Maths Long Term Overview

	1	2	3	4	5	6	7
HT1	Number: Place Value	Number: Place Value	Number: Place Value	Addition and Subtraction	Addition and Subtraction	Statistics	Statistics
HT2	Multiplication and Division	Multiplication and Division	Multiplication and Division	Multiplication and Division	Multiplication and Division	Consolidation Week/Assessment Week	Christmas activities
HT3	Multiplication and Division	Measurement: Perimeter and Area	Measurement: Perimeter and Area	Fractions	Fractions	Fractions	Fractions
HT4	Fractions	Fractions	Decimals and Percentages	Decimals and Percentages	Consolidation Week/Assessment Week	-----	-----
HT5	Time	Decimals	Decimals	Decimals	Geometry: Properties of Shapes	Geometry: Properties of Shapes	-----
HT6	Geometry: Properties of Shapes	Geometry: Position and Direction	Measurement: Converting Units	Measurement: Converting Units	Measurement: volume	Consolidation Week/Assessment Week	Summer activities



Year 5 Maths Medium Term Plan HT1

Week	Topic	Objectives to cover	Mental Maths/Recap
1.1	Number – Place Value	• Read, write, order and compare numbers to at least 1,000,000 and determine the value of each digit. • Count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000. • Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers including through zero.	
1.2	Number – Place Value	• Round any number up to 1,000,000 to the nearest 10, 100, 1000, 10000 and 100,000	
1.3	Number – Place Value	• Read Roman numerals to 1000 (M) and recognise years written in Roman numerals. • Solve number problems and practical problems that involve all of the above.	
1.4	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 written methods (columnar addition and subtraction)	
1.5	Addition and Subtraction	• 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.	
1.6	Statistics	• Solve comparison, sum and difference problems using information presented in a line graph.	
1.7	Statistics	• Complete, read and interpret information in tables including timetables.	



Year 5 Maths Medium Term Plan HT2

Week	Topic	Objectives to cover	Mental Maths/Recap
2.1	Multiplication and Division	• Multiply and divide numbers mentally drawing upon known facts. • Multiply and divide whole numbers by 10, 100 and 1000. • Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.	
2.2	Multiplication and Division	• Recognise and use square numbers and cube numbers and the notation for squared (2) and cubed (3) • Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes. • Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers. • Establish whether a number up to 100 is prime and recall prime numbers up to 19	
2.3	Multiplication and Division	• Multiply numbers up to 4 digits by a one or two digit number using a formal written method, including long multiplication for 2 digit numbers.	
2.4	Multiplication and Division	• 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.	
2.5	Multiplication and Division	• Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.	
2.6	Consolidation Week/Assessment Week	• Assessments • Consolidation lessons on anything needing covered again	



2.7	Christmas Maths Activities	Activities covering what children have previously been learning	
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Year 5 Maths Medium Term Plan HT3

Week	Topic	Objectives to cover	Mental Maths/Recap
3.1	Multiplication and Division	Solve problems involving addition and subtraction, multiplication and division and a combination of these, including understanding the use of the equals sign.	
3.2	Perimeter and Area	Measure and calculate the perimeter of composite rectilinear shapes in cm and m.	
3.3	Perimeter and Area	Calculate and compare the area of rectangles (including squares), and including using standard units, cm², m² estimate the area of irregular shapes.	
3.4	Fractions	Identify, name and write equivalent fractions of a given fraction, represented visually including tenths and hundredths.	
3.5	Fractions	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements >1 as a mixed number [for example $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$]	
3.6	Fractions	Compare and order fractions whose denominators are multiples of the same number.	
3.7	Fractions	Add and subtract fractions with the same denominator and denominators that are multiples of the same number.	



Year 5 Maths Medium Term Plan HT4

Week	Topic	Objectives to cover	Mental Maths/Recap
4.1	Fractions	• Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams.	
4.2	Fractions	• Read and write decimal numbers as fractions [for example $0.71 = \frac{71}{100}$] • Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.	
4.3	Decimals and Percentages	• Read, write, order and compare numbers with up to three decimal places. • Round decimals with two decimal places to the nearest whole number and to one decimal place. • Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	
4.4	Decimals and Percentages	• 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. • Solve problems which require knowing percentage and decimal equivalents of 12, 14, 15, 25, 45 and those fractions with a denominator of a multiple of 10 or 25.	
4.5	Consolidation Week/Assessment Week	• Assessments • Consolidation lessons on anything needing covered again	



Year 5 Maths Medium Term Plan HT5

Week	Topic	Objectives to cover	Mental Maths/Recap
5.1	Time	<u>Recap Year 4 objectives</u> • Convert between different units of measure [for example, kilometre to metre; hour to minute] • Read, write and convert time between analogue and digital 12- and 24-hour clocks • Convert between different units of measure [for example, kilometre to metre; hour to minute] • Solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days (General time telling and reading of analogue and digital clocks)	
5.2	Decimals	• Solve problems involving number up to three decimal places. • Round decimals with two decimal places to the nearest whole number and to one decimal place.	
5.3	Decimals	• Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.	
5.4	Decimals	• Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.	
5.5	Geometry – Properties of Shapes	• Identify 3D shapes, including cubes and other cuboids, from 2D representations. • Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles.	
5.6	Geometry – Properties of Shapes	• Identify: angles at a point and one whole turn (total 360°), angles at a point on a straight line and $\frac{1}{2}$ a turn (total 180°) other multiples of 90° • Draw given angles, and measure them in degrees (°)	



Year 5 Maths Medium Term Plan HT6

Week	Topic	Objectives to cover	Mental Maths/Recap
6.1	Geometry – Properties of Shapes	- Distinguish between regular and irregular polygons based on reasoning about equal sides and angles - Use the properties of rectangles to deduce related facts and find missing lengths and angles.	
6.2	Geometry – Position and Direction	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	
6.3	Measurement – Converting Units	Convert between different units of metric measure [for example, km and m; cm and m; cm and mm; g and kg; l and ml]	
6.4	Measurement – Converting Units	- Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints - Solve problems involving converting between units of time	
6.5	Measures - Volume	- Estimate volume [for example using 1cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water] - Use all four operations to solve problems involving measure	
6.6	Consolidation Week/Assessment Week	- Assessments - Consolidation lessons on anything needing covered again	
6.7	Summer Activities	Activities covering what children have previously been learning	



Mental Maths Targets Year 5

Properties of Number:

- Round decimals with 2dp to whole numbers or 1dp
- Know factor pairs for numbers to 100
- Know prime numbers to 19 (and composite numbers)
- Read Roman Numerals to 1000

Counting

- Count in 0.3s forwards and backwards from any number
- Count in 0.4s forwards and backwards from any number
- Count in 0.25s forwards and backwards from any number
- Count forwards and backwards through 0 in any step

Number bonds

- Know what to add to numbers with 1dp to make the next whole number
- Know what to add to any 4 digit number to make the next 1000
- Know pairs of 2dp numbers that add to 1

Calculation

- Multiply by 25
- Multiply by 50
- Multiply and divide by 10, 100, 1000 including decimals

Doubles and Halves

- Know doubles and halves of numbers with 1dp to 10

Times Tables

- Know the 12 times table and division facts
- Know the 11 times table and division facts
- Know the 7 times table and division facts
- Know the 9 times table and division facts
- Know the 6 times table and division facts

Fractions

- Find non unit fractions of numbers eg. $\frac{4}{9}$ of 54
- Know unit fractions of numbers eg. $\frac{1}{6}$ of 30
- Know FDP equivalences for $\frac{1}{2}$ s $\frac{1}{4}$ s $\frac{1}{10}$ s $\frac{1}{100}$ s