

Gosberton Academy Long Term Map - Year 4 & Year 5 Maths (2023/2024)



	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12	Week 13	Week 14	Week 15	Week 16
Autumn Y4	Number: Place Value			Number: Addition and Subtraction			Multiplication and Division	Half Term	Half Term	Number: Multiplication and Division			Length and Perimeter			Area
Autumn Y5	Number: Place Value			Number: Addition and Subtraction			Multiplication and Division	Half Term	Half Term	Multiplication and Division			Length and Perimeter		Consolidation	
Spring Y4	Number: Fractions					Decimals	Half Term	Number: Decimals			Money		Consolidation	Easter Holiday	Easter Holiday	
Spring Y5	Number: Fractions						Half Term	Number: Decimals			Number: Decimals and Percentages		Easter Holiday	Easter Holiday		
Summer Y4	Statistics		Geometry: Properties of Shape			Geometry: Position and Direction	Half Term	Revision of the four operations	Measures		Consolidation of all learning – ensure place value and the four operations is secure – apply this to problem solving.				Summer Holiday	
Summer Y5	Statistics		Geometry: Properties of Shape			Geometry: Position and Direction	Half Term	Revision of the four operations	Measures		Consolidation of all learning – ensure place value and the four operations is secure – apply this to problem solving.				Summer Holiday	

Year 4: Number and Place Value	AU	SP	SU	Year 4: Fractions and Decimals (continued)	AU	SP	SU
Count in multiples of 6, 7, 9, 25 and 1000				Recognise and write decimal equivalents to one quarter, one half and three quarters.			
Find 1000 more or less than a given number				Find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths			
Count backwards through zero to include negative numbers				Round decimals with one decimal place to the nearest whole number			
Recognise the place value of each digit in a four-digit number (thousands, hundreds, tens, and ones)				Compare numbers with the same number of decimal places up to two decimal places			
Order and compare numbers beyond 1000				Solve simple measure and money problems involving fractions and decimals to two decimal places.			
Identify, represent and estimate numbers using different representations				Year 4: Measures			
Round any number to the nearest 10, 100 or 1000				Convert between different units of measure [for example, kilometre to metre; hour to minute]			
Solve number and practical problems that involve all of the above and with increasingly large positive numbers				Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres			
Read Roman numerals to 100 and know that over time, the numeral system changed to include the concept of zero and place value.				Find the area of rectilinear shapes by counting squares			
Year 4: Addition and Subtraction				Estimate, compare and calculate different measures, including money in pounds and pence			
Add and subtract numbers with up to 4 digits using the formal written methods of columnar + and - where appropriate				Read, write and convert time between analogue and digital 12- and 24-hour clocks			
Estimate and use inverse operations to check answers to a calculation				Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days.			
Solve addition and subtraction two-step problems in contexts, deciding which operations and methods to use and why.				Year 4: Properties of Shape			
Year 4: Multiplication and Division				Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes			

N.B. – These are **suggested** time frames; if you need to, please spend longer on a block, objectives must be embedded. Consolidation of any learning should focus on place value, the four operations and fractions (inc. decimals and percentages for the older children). Blocks taught should be revisited each term through Cold Maths, lesson starters and when links are made between mathematical concepts e.g. measure and place value. These are curriculum objectives and what you should be teaching from.

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Recall multiplication and division facts for multiplication tables up to 12×12				Identify acute and obtuse angles and compare and order angles up to two right angles by size			
Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers				Identify lines of symmetry in 2-D shapes presented in different orientations			
Recognise and use factor pairs and commutativity in mental calculations				Complete a simple symmetric figure with respect to a specific line of symmetry			
Multiply two-digit and three-digit numbers by a one-digit number using formal written layout				Year 4: Position and Direction			
Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects.				Describe positions on a 2-D grid as coordinates in the first quadrant			
Year 4: Fractions and Decimals				Describe movements between positions as translations of a given unit to the left/right and up/down			
Recognise and show, using diagrams, families of common equivalent fractions				Plot specified points and draw sides to complete a given polygon.			
Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.				Year 4: Statistics			
Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number				Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.			
Add and subtract fractions with the same denominator				Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs			
Recognise and write decimal equivalents of any number of tenths or hundredths							

Year 5: Number and Place Value	AU	SP	SU	Year 5: Fractions (including decimals and percentages) - continued	AU	SP	SU
Read, write, order and compare numbers to at least 1 000 000 and determine the value of each digit				Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams			
Count forwards or backwards in steps of powers of 10 for any given number up to 1 000 000				Read and write decimal numbers as fractions [for example, $0.71 = 71/100$]			
Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero				Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents			
Round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000				Round decimals with two decimal places to the nearest whole number and to one decimal place			
Solve number problems and practical problems that involve all of the above				Read, write, order and compare numbers with up to three decimal places			
Read Roman numerals to 1000 (M) and recognise years written in Roman numerals				Solve problems involving number up to three decimal places			
Year 5: Addition and Subtraction				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			
Add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar)				Solve problems which require knowing percentage and decimal equivalents of $1/2$, $1/4$, $1/5$, $2/5$, $4/5$ and those fractions with a denominator of a multiple of 10 or 25.			
Add and subtract numbers mentally with increasingly large numbers				Year 5: Measures			
Use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy				Convert between different units of metric measure (for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)			
Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why.				Understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints			
Year 5: Multiplication and Division				Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres			
Identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers				Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (cm^2) and square metres (m^2) and estimate the area of irregular shapes			
Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers				Estimate volume [for example, using 1 cm^3 blocks to build cuboids (including cubes)] and capacity [for example, using water]			

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Establish whether a number up to 100 is prime and recall prime numbers up to 19			Solve problems involving converting between units of time			
Multiply numbers up to 4 digits by a 1 or 2 digit number using a formal written method, including long multiplication for two-digit numbers			Use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling.			
Multiply and divide numbers mentally drawing upon known facts			Year 5: Properties of Shape			
Divide numbers up to 4 digits by a 1-digit number using the formal written method of short division; interpret remainders appropriately			Identify 3-D shapes, including cubes and other cuboids, from 2-D representations			
Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000			Know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles			
Recognise and use square numbers and cube numbers, and the notation for squared (²) and cubed (³)			Draw given angles, and measure them in degrees (o)			
Solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes			Identify: angles at a point and one whole turn (total 360°); angles at a point on a straight line and 1/2 a turn (total 180°) and other multiples of 90°			
Solve problems involving all four operations and a combination of these, inc. understanding the meaning of the equals sign			Use the properties of rectangles to deduce related facts and find missing lengths and angles			
Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates.			Distinguish between regular and irregular polygons based on reasoning about equal sides and angles			
Year 5: Fractions (including decimals and percentages)			Year 5: Position and Direction			
Compare and order fractions whose denominators are all multiples of the same number			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.			
Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths			Year 5: Statistics			
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]			Solve comparison, sum and difference problems using information presented in a line graph			
Add and subtract fractions with the same denominator and denominators that are multiples of the same number			Complete, read and interpret information in tables, including timetables.			

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