Year 5 Curriculum Map – Maths

The teaching of mathematics in **Key Stage 2** should ensure pupils develop confidence and mental fluency with whole numbers, counting and place value. This should involve working with numerals, words and the four operations, including with practical resources (concrete objects, measuring tools, etc.). At this stage, pupils should develop their ability to recognise, describe, draw, compare and sort different shapes and use the related vocabulary. Teaching should also involve using a range of measures to describe and compare different quantities such as length, mass, capacity/volume, time and money.

Term 1 Number: Place Value - Numbers to 10,000 , Number to 100,000 , Numbers to 1,000,000 (3 Weeks.) Calculation – Addition and Subtraction: (2 Weeks) Calculation – Multiplication and Division (3 Weeks) Calculation- Fractions: Addition and subtraction (4 Weeks)	Term 2 Numbers to 1,000,000 Calculation: Multiplication and Division (3 Weeks) Calculation- Fractions (2 Weeks) Number: Decimals and Percentages- (3 Weeks) Measurement – Area and Perimeter (2 Weeks) Statistics (2 Weeks)	
Concrete and Pictorial		
Identify and represent numbers to 10,000 using concrete objects and pictorial representation.		Interpret negative numbers in o
Identify and represent numbers 100,000 using concrete objects and pictorial representation.		Compare and order negative n
Identify and represent numbers 1,000,000 using concrete objects and pictorial representation.		Find the difference between ne
Number and place value – Solve number problems, and practical problems.		
Read Roman numerals to 1000 (M).	5NPV–1 Know that 10 tenths are equivalent to 1 one, and that 1 is 10 times the size of 0.1. Know that 100 hundredths are equivalent to 1 one, and that 1 is 100 times the size of 0.01. Know that 10 hundredths are equivalent to 1 tenth, and that 0.1 is 10 times the size of 0.01.	Decimal Sequences
Order and compare numbers to 10,000.	5NPV-2 Recognise the place value of each digit in numbers with up to 2 decimal places, and compose and decompose numbers with up to 2 decimal places using standard and nonstandard partitioning	
Order and compare numbers to 100,000.	5NPV–3 Reason about the location of any number with up to 2 decimals places in the linear number system, including identifying the previous and next multiple of 1 and 0.1 and rounding to the nearest of each.	
Order and compare numbers to 1,000,000.		
Given a number, identify 1, 10, 100, 1000, 10,000, 100,000 more or less.		
Read, write and order numbers to 1, 000,000 in digits and words and determine the value of each digit.		Count coins (1p, 2p, 5p, 10p, 20
Round to the nearest 10, 100, 1000.		Count forward and backwards
Count in powers of ten from any given number up beyond 1,000,000.		
Count in powers of ten from any given number up to 10,000.		
Round within 100,000		
Round within 1,000,000		
Addition and Subtraction - Estimating and using inverse operations to check answers to a calcu	llation. Solving addition and subtraction multi-step problems in context, deciding which c	perations and methods to
Add and subtract numbers mentally (.e.g. HTU + TU, HTU – TU).		Use known facts to add and su
Add and Subtract whole numbers with more than 4 digits using columns.		Complements to 1
Round numbers to check answers		Add and subtract decimals acr
Multi-step addition and subtraction problems		Add and subtract decimals wit
Missing number calculations		
Multiplication and Division - Solving problems involving addition, subtraction, multiplication a	nd division and a combination of these, including understanding the meaning of the equa	Is sign. Estimate to check
TTRS throughout the year.	5MD-3 Multiply numbers up to 4 digits by a one- or two-digit number using an formal written method, including long multiplication for two-digit numbers.	Multiply and divide decimals by
5NF-1 Secure fluency in multiplication table facts, and corresponding division facts, through continued practice.	5MD-4 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.	Multiply and divide decimals w
5MD-2 Identify multiples and factors, including finding all factor pairs of a number and common factors of 2 numbers and express a given number as a product of 2 or 3 factors	Solve problems involving multiplication and division where larger numbers are used by decomposing them into their factors.	
Multiply and divide numbers mentally drawing upon known facts.	Solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates	
Establish whether a number up to 100 is prime and recall prime numbers up to 19. Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers		
Recognise and use square numbers and cube numbers, and the notation for squared and cubed.		
5MD-1 Multiply and divide whole numbers and those involving decimals by 10, 100 and 1000; understand this as equivalent to making a number 10 or 100 times the size, or 1 tenth or 1 hundredth times the size.		
Fractions – Solve problems involving any of the below.		

Ready to Progress Criteria



Term 3 Numbers to 1,000,000 Geometry: 2D and 3D shape (3 Weeks) Geometry: Position and Direction (2 Weeks) Number-Decimals (3 Weeks) Number – Negative Numbers (1 Week) Measurement: Converting Units (2 Weeks) Measurement: Volume (1 Week)

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second products of all point of all points of all	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	5F-1 recognise , find and write fractions of a discrete set of objects; unit and non-unit fractions of larger denominators.	
Status case - state - s	Recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as a mixed number.	Recognise, find and write fractions of a discrete set of objects; unit and non-unit fractions of larger denominators.	
Xet draw and were straken and the draw and were straken by a draw and were straken by a draw and were straken a	Compare and order fractions whose denominators are all multiples of the same number.	Identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths.	
Texas on power starty are budgets and access of a constraint access	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.	
Exercise development of a construct of a const	Count up and down in tenths and hundredths and understand the effects of dividing by 10 and 100.		
Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages - Solving problems involving numbers up to three decimal piezes Image: Additional and Percentages and Percentage	5F–2 Find equivalent fractions and understand that they have the same value and the same position in the linear number system.		
Decimals and Parcentages Solving problems involving numbers up to three decimal places Image: Control of the parcentage of the proving to the parcentage of the parcentage	5NF-2 Apply place-value knowledge to known additive and multiplicative number facts (scaling facts by 1 tenth or 1 hundredth).		
Recycle floor which we determined the over extent webs. Include the over extent and the over the determined the over extent and the over the determined the determined the determined the over the determined the	Decimals and Percentages - Solving problems involving numbers up to three decimal places.		
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Red and write occuration unders as includers (or source, but any hubit problem) Include includ		fractions.	
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Send Security with and density with and density with respect to the density of the density algene. Image: Comparison of the density of the d		Recognise and use thousandths and relate them to tenths, hundredths and decimal equivalents.	
Measurement Using all four operations with up to three deform paces. Center of a mapped of to a 3. Center of a mapped of to a mapped of tho a mapped of the a 1. Center of a mapped of to a mapped of the a 1. Center of of the		Round decimals with two decimal places to the nearest whole number and to one decimal place.	
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Geometry - Properties of Shape Geometry - Poil 663.3		Solve problems which require knowing percentage and decimal equivalents of ½, ¼, ¾, fifths and those with a denominator of a multiple of 10 or 25.	
Measurement - Using all four operations to solve problems involving measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, money) using decime same and the measure (for example, length, mass, volume, measure (fo			Geometry – Properties of Shape Geometry – Position and Direction
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Image: instant one whole turn (total 3600)			5G-1 Draw given angles and measure them in degrees.
Use the properties of catagotic to deduce related facts and find paids Draw quadrations Distinguish between regular and irregular polycons based on reasoning about e Identify, discribe and represent the position of a shape following a reflection o Identify, discribe and represent the position of a shape following a reflection o Identify, discribe and represent the position of a shape following a reflection o Identify, discribe and represent the position of a shape following a reflection o Identify, discribe and represent the position of a shape following a reflection o Identify, discribe and represent the position of a shape following a reflection o Identify, discribe and compare the size a find end to be problems involving measure Sci2hresure and calculate the pommeter of composite rectinger shapes Convert between different units of metric measure (signams, Kilograms, Tonnes) Needed units, square compare the size of nectangles (including quares), and including cuares or rectinger shapes Convert between different units of metric measure (signams, tonnes) Receive a stape Understand and use approximate equivalences between metric units and commouse rectinger shapes Understand and use approximate equivalences between metric units and commouse, pints and gallons. Understand and use approximate equivalences between metric units and commouse, pints and gallons.			 angles at a point and one whole turn (total 360o) angles at a point on a straight line and ½ a turn (total 180o) other multiples of 90o
Draw quadmaterias and traininges using given dramstand an algebs. Draw quadmaterias and traininges. Draw quadmaterias and training regular and training projectors based on reasoning about a programmetic figure working sease to a specific line of symmetry identify 3D shapes, including cubes and other cubaids from 2D representations scaling. So 2ntessure and calculate the perimeter of composite ractineershapes in certimetres are interesting and training each other cubaids from 2D representations and training each other each			Use the properties of rectangles to deduce related facts and find missing lengths and angles.
Identify, describe and represent the position of a shape following a reflection on language, and know that the shape has not changed. Complete as implesymmetric figure with respect to a specific line of symmetry identify 3D shapes, including cubes and other cuboids from 2D representations calling. Measurement - Using all four operations to solve problems involving measure [for example, length, mass, volume, money] using decime scaling. B G2Anic pare and calculate the perimeter of composite rectilinear shapes in continuetes and nexts. B G2AC calculate and calculate the perimeter of composite rectilinear shapes in continuetes and rectangies (including squares); and including unit calculate units of metric measure (Grams, Klograms, Klograms, Tonnes) B G2AC calculate and calculate the perimeter of composite rectilinear shapes in continuetes and metric. Convert between different units of metric measure (Grams, Klograms, Tonnes) B G2AC calculate and calculate the perimeter of composite rectilinear shapes in continuetes and receive and metric (m) and square metres (m) and estimate the area of rectangies (including cubes and other cuboids for dome to receive a specific line of symmetry in the standard of use approximate equivalences between metric units and composite recuivalences between metric units and composite and muses. Understand and use approximate equivalences between metric units and composite of example, using 1 cm 'blocks to build cuboids (including cubes) Understand and use approximate equivalences between metric units and composite weather of example, using 1 cm 'blocks to build cuboids (including cubes)			Draw quadrilaterals and triangles using given dimensions and angles. Distinguish between regular and irregular polygons based on reasoning about equal sides and angles.
Measurement - Using all four operations to solve problems involving measure [for example, length, mass, volume, money] using decim scaling. Sc-2c Measure and calculate the perimeter of composite rectilinear shapes in centimetres and Convert between different units of metric measure (Grams, Kilograms, Tonnes) 6 -2 Calculate and compare the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including squares), and including using transaction in the area of rectangies (including square entimetres (m ⁻) and square metrics (m ⁻) and square metric units and compare in the area of integrating and use approximate equivalences between metric units and compare in the area of rectangies (including square) Convert between different units of metric measure (kilometre and metre; centimateres) Understand and use approximate equivalences between metric units and compare in the area of integrating and use approximate equivalences between metric units and compare in the area of integrating and use approximate equivalences between metric units			Identify, describe and represent the position of a shape following a reflection or translation, using the a
Identify 3D shapes, including cubes and other cuboids from 2D representations Measurement - Using all four operations to solve problems involving measure [for example, length, mass, volume, money] using decim scaling. BG-2Measure and calculate the perimeter of composite rectilinear shapes in centimetres and netree. Convert between different units of metric measure (Grams, Kilograms, Tonnes) SG-2Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (m ²) and square metres (m ²) and estimate the area of regular shapes Convert between different units of metric measure (kilometre and metre; centimitimetre). Understand and use approximate equivalences between metric units and comm pounds and ounces. Understand and use approximate equivalences between metric units and comm pounds and ounces. Estimate volume (for example, using 1 cm ³ blocks to build cuboids (including cu using water). Understand and use approximate equivalences between metric units and comm pounds and ounces, pints and gallons.			Complete a simple symmetric figure with respect to a specific line of symmetry, including diagonal mirror
Measurement - Using all four operations to solve problems involving measure [for example, length, mass, volume, money] using decim scaling. If G-22Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres Convert between different units of metric measure (Grams, Kilograms, Tonnes) SG-22Calculate and compare the area of rectangles (including quares), and including using standard units, square centimetres (m ²) and square metres (m ²) and square metres (m ²) and square metres (m ²) and estimate the area of rectangles (including quares), and including using standard units, square centimetres (m ²) and square metres (m ²) and estimate the area of rectangles (including quares), and including using standard units, square centimetres (m ²) and square metres (m ²) and square metres (m ²) and square metres (m ²) and estimate the area of metric measure (kilometre and metre; centimilimetre). Understand and use approximate equivalences between metric units and commounds and ounces. Understand and use approximate equivalences between metric units and commounces. Estimate volume [for example, using 1 cm ³ blocks to build cubbids (including cularing water]. Understand and use approximate equivalences between metric units and commounces, pints and galons.			Identify 3D shapes, including cubes and other cuboids from 2D representations.
Scaling. 36-2Measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres. Convert between different units of metric measure (Grams, Kilograms, Tonnes) SG-2Calculate and compare the area of rectangles (including squares), and including using standard units, square centimetres (m ²) and square metres (m ²) and estimate the area of rectangles (including squares). Convert between different units of metric measure (Kilometre and metre; centimilimetre). Irregular shapes Understand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission of the stand and use approximate equivalences between metric units and commission ounces, pints and gallons.		Measurement - Using all four operations to solve problems involving measure	[for example, length, mass, volume, money] using decimal notation, inclu
Interest SG-2claculate 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 integrating integrat		scaling. 5G-2Measure and calculate the perimeter of composite rectilinear shapes in centimetres and	Convert between different units of metric measure (Grams, Kilograms, Tonnes).
standard units, square centimetres (m ²) and square metres (m ²) and estimate the area of regular shapes. millimetre). Understand and use approximate equivalences between metric units and commercian feet and miles. Understand and use approximate equivalences between metric units and commerciant pounds and ounces. Estimate volume (for example, using 1 cm ³ blocks to build cuboids (including culting water). Understand and use approximate equivalences between metric units and commerciant pounds and ounces. Understand and use approximate equivalences between metric units and commerciant pounds and ounces. Estimate volume (for example, using 1 cm ³ blocks to build cuboids (including culting water). Understand and use approximate equivalences between metric units and commerciant pounds and ounces, pints and gallons. Standard units, square centimetric units and commerciant pounds and succes between metric units and commerciant pounds and succes.		5G-2 Calculate and compare the area of rectangles (including squares), and including using	Convert between different units of metric measure (kilometre and metre; centimetre and metre; centi
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Understand and use approximate equivalences between metric units and comm pounds and ounces. Estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cu using water]. Understand and use approximate equivalences between metric units and comm ounces, pints and gallons.			Understand and use approximate equivalences between metric units and common imperial units such feet and miles.
Estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cu using water]. Understand and use approximate equivalences between metric units and commo ounces, pints and gallons.			Understand and use approximate equivalences between metric units and common imperial units such pounds and ounces.
Understand and use approximate equivalences between metric units and common ounces, pints and gallons.			Estimate volume [for example, using 1 cm ³ blocks to build cuboids (including cubes)] and capacity [for e using water].
			Understand and use approximate equivalences between metric units and common imperial units such ounces, pints and gallons.

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				Solve problems involving converting between units of time.
				SNPV-4 Divide 1 into 2, 4, 5 and 10 equal parts, and read scales/number lines marked in units of 1 with 2, 4, 5 and 10 equal parts
				5NPV-5 Convert between units of measure, including using common decimals and fractions.
		Statistics		
		Complete, read and interpret information in tables, including tir	metables.	
		Solve comparison, sum and difference problems using information	tion presented in line graphs.	
Rainbow Challenge				
	Venus Recognise multiples of 4 Recognise multiples of 8 Recall multiplication facts for the 25 times table Recall multiplication facts for the 50 times table Know by heart number bonds to 1000 Round any number to the nearest 100 Halve any number up to 1000			MercuryRecognise multiples of 3Recognise multiples of 6Recall multiplication facts for the 25 and 50 times tableRecall mixed times tablesKnow by heart square numbers to 12 x 12Recognise prime numbers to 30Find a ¼/25% of any even number to 1000Double any number with up to one decimal place