




MATHS READY TO PROGRESS CURRICULUM MAP

SKILLS, KNOWLEDGE AND UNDERSTANDING PROGRESSION

YEAR	Number and place value	Number facts	Addition and subtraction	Multiplication and division	Fractions	Geometry	PROGRESSION
6	Powers of 10 from 1 hundredth to 10 million Place value to 10 million, including decimal fractions, partitioning. Scales/number lines divided into 2, 4, 5 and 10.	Recall and apply: - all number facts e.g. multiplication tables - properties e.g. prime numbers to 19, factors	Understand that 2 numbers can be related additively Use a given additive calculation to derive or complete a related calculation, using properties, inverse and place-value Application to multistep problems, reasoning, investigation	Long division 4 by 2 Understand 2 numbers can be related multiplicatively Use a given multiplicative calculation to derive or complete a related calculation, using properties, inverse and place-value. Solve ratio problems, two unknown problems	Simplify fractions Convert fractions to compare, including greater than 1, Choose between reasoning and converting denominator as the comparison strategy	Draw, compose, and decompose shapes according to given properties, including dimensions, angles and area, and solve related problems	SKILLS 
5	How many hundreds and tenths equivalent to 1. Partition and reason numbers to 2 decimal places Divide 1 into 2, 4, 5 and 10 equal parts Convert units of measure	Practise and apply: Multiplication and division facts. Recognise products as multiples. Apply place-value to additive and multiplicative facts (scaling facts by 1/10 and 1/100)	Addition and subtraction column method up to one million Application to multistep problems, reasoning, investigation	Multiply and divide by 10, 100, 1000 inc. decimals Common factors, multiples Short and long multiplication methods 4 by 1 or 2 digits Divide 4 by 1	Non-unit fractions of quantities Equivalent fractions – understand same position in number system Recall fraction/decimal equivalences: $\frac{1}{2}$, $\frac{1}{4}$, $\frac{1}{5}$, $\frac{1}{10}$ and multiples of these Convert mixed numbers to improper fractions and vice versa	Compare areas and calculate the area of rectangles (including squares)	KNOWLEDGE 
4	Know 10 hundreds = 1 thousand; 1,000 = 10 times size of 100; how many 100s there are in other four-digit multiples of 100. Know and reason four-digit numbers using partitioning. Multiples of 1,000 and 100, and rounding to the nearest of each.	Multiplication and division facts to 12 x 12 Recognise products as multiples. Division problems by one digit divisors, remainders Apply place-value to additive and multiplicative facts (scaling facts by 100)	Four digit column method Application of inverse to manipulate and solve calculations Reasoning and problem solving	Multiply and divide whole numbers by 10 and 100 Manipulate multiplication and division calculations, commutative properties, distributive properties	Reason about the location of mixed numbers on the linear number system Add and subtract improper and mixed fractions with the same denominator Convert mixed numbers to improper fractions and vice versa	Draw polygons, specified by coordinates and translate within the first quadrant. Identify regular polygons, including equilateral triangles and squares, Perimeter of regular, irregular polygons Identify line symmetry in 2D shapes presented, reflect shapes	UNDERSTANDING 
3	Know 10 tens = 1 hundred, 100 = 10 times size of 10; how many 10s in three digit multiples of 10. Know and reason three-digit	addition and subtraction facts that bridge 10, multiplication and division facts: 2, 4, 8, 5, 10 Apply place-value knowledge	Complements to 100 Three digit column method Inverse and manipulate additive relationship Commutative property of	Apply known multiplication and division facts to solve contextual problems with different structures,	Interpret and write proper fractions to represent 1 Find unit fractions of quantities	Draw polygons by joining marked points, and identify parallel and perpendicular sides. Read, record and compare	

	<p>numbers, using partitioning. Multiples of 100 and 10. Divide 100 into 2, 4, 5 and 10 equal parts</p>	<p>to known additive and multiplicative number facts (scaling facts by 10)</p>	<p>addition and relation to subtraction</p>	<p>including quotitive and partitive division.</p>	<p>Reason about the location of any fraction within 1 in the linear number system. Add/subtract fractions same denominator</p>	<p>time, nearest minute</p>
2	<p>Place value two-digit numbers, standard and nonstandard partitioning. Reason location of any two digit number, previous and next multiple of 10.</p>	<p>Secure fluency in addition and subtraction facts within 10, through continued practice. Number properties reasoning.</p>	<p>Add and subtract across 10. Understand 'difference' and 'how many more..' Add/subtract within 100</p>	<p>Represent repeated addition with multiplication equations and calculating the product, within the 2, 5 and 10 tables.</p>	<p>recognise, find, name and write fractions $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity</p>	<p>estimate and measure length/height, (m/cm); mass (kg/g); temperature ($^{\circ}$C); capacity (litres/ml) using rulers, scales, thermometers and measuring vessels. pounds (£) and pence (p) Time to 5 minutes</p>
1	<p>Count within 100, forwards and backwards, starting with any number. Reason about numbers to 20 within the linear number system, including comparing using $<$ $>$ and $=$</p>	<p>Addition and subtraction facts within 10 Count forwards and backwards odd numbers and in multiples of 2, 5 and 10, beginning with any multiple</p>	<p>Compose and partition numbers to 10 Read, write and interpret equations containing addition, subtraction and equals symbols Real life contexts</p>	<p>Begin recording multiples of 2, 5 and 10</p>	<p>recognise, find and name a half as 1 of 2 equal parts and a quarter as 1 of 4 of an object, shape or quantity.</p>	<p>Compose 2D and 3D shapes from smaller shapes to match an example, including manipulating shapes to place them in particular orientations.</p>
R	<p>Count objects, actions and sounds Subitise up to 5 objects Link numeral with cardinal number value Count beyond 10 Recite numbers beyond 20</p>	<p>Composition of numbers to 10 Number bonds to 5 and 10 Identify odd and even numbers</p>	<p>One more and one less within 10 Compose numbers to 10 Recall of number bonds to 5 and then 10</p>	<p>Double facts within 10 Sharing objects into equal groups</p>	<p>Compare quantities up to 10 in different contexts</p>	<p>Select, rotate and manipulate shapes Compose and decompose shapes Continue, copy and create repeating patterns. Compare length, weight and capacity</p>
N	<p>Recite numbers past 5 Say one number for each item counted Know the last number reached when counting tells you how many there are. Subitise up to 3 objects</p>	<p>Show number fingers to 5 Solve real life number problems to 5</p>	<p>To add and subtract one in practical activities</p>	<p>Sharing of everyday items between individuals or groups</p>	<p>Compare quantities using more than and fewer</p>	<p>Talk about the features of 2D and 3D shapes Select shapes appropriately when building Combine shapes to make bigger ones Identify patterns around us Make comparisons between objects relating to size, length, weight and capacity</p>