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Year 5

Maths Targets

Name _____

Child Speak Target	Greater Depth Target	
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Number Place Value			
K	<i>I can read, write, order and compare numbers to at least 1 000 000 and know the value of each digit.</i>		<i>I can read, write, order and compare numbers to at least 1 000 000 independently and know the value of each digit.</i>
	<i>I count forwards or backwards in steps 10, 100, 1000, 10000 or 100000 for any given number up to 1000000.</i>		<i>I confidently and quickly count forwards or backwards in steps 10, 100, 1000, 10000 or 100000 for any given number up to 1000000.</i>
K	<i>I can use negative numbers in my work and can count backwards and forwards to and from negative numbers.</i>		<i>I can use negative numbers in my work independently and can count backwards and forwards to and from negative numbers.</i>
	<i>I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000.</i>		<i>I can round any number up to 1 000 000 to the nearest 10, 100, 1000, 10 000 and 100 000 and use this to predict and check the answers to calculations</i>
	<i>I can solve number problems and practical problems that involve numbers up to 1000000, negative numbers, rounding or jumping in steps.</i>		<i>I can solve number problems and practical problems in a range of contexts, that involve numbers up to 1000000, negative numbers, rounding or jumping in steps.</i>
	<i>I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.</i>		<i>I can confidently read Roman numerals to 1000 (M) and recognise and explain years written in Roman numerals.</i>
Addition Subtraction			
K	<i>I can add and subtract whole numbers with more than 4 digits using written methods such as column addition and subtraction.</i>		<i>I can add and subtract whole numbers with more than 4 digits using written methods such as column addition and subtraction in a range of different contexts</i>
K	<i>I can add and subtract larger numbers in my head.</i>		<i>I can rapidly add and subtract larger numbers in my head.</i>
	<i>I round numbers to check the accuracy of my solution.</i>		<i>I accurately round numbers to check the accuracy of my solution.</i>
	<i>I can solve addition and subtraction multi-step problems, deciding which operations and methods to use and why.</i>		<i>I can independently solve more complex addition and subtraction multi-step problems, deciding which operations and methods to use and why.</i>
Multiplication Division			
K	<i>I can identify multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</i>		<i>I can solve problems mentally by identifying multiples and factors, including finding all factor pairs of a number, and common factors of two numbers.</i>
	<i>I know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers.</i>		<i>I confidently use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers when reasoning about problems and investigations.</i>
	<i>I know whether a number up to 100 is prime and recall prime numbers up to 19.</i>		<i>I know whether a number up to 100 is prime and recall prime numbers up to 19, using this to help with maths investigations.</i>
	<i>I can multiply 4 digit numbers by a one- or two-digit number using a written method, including long multiplication for two-digit numbers.</i>		<i>I can confidently multiply 4 digit numbers by a one- or two-digit number using a written method, including long multiplication for two-digit numbers to solve a range of problems.</i>
	<i>I multiply and divide numbers mentally drawing upon my times table knowledge and other number facts.</i>		<i>I multiply and divide numbers mentally drawing upon my times table knowledge and other number facts to solve practical problems.</i>
	<i>I can divide 4 digit numbers by a one-digit number using the written method of short division and find the remainder.</i>		<i>I can divide 4 digit numbers by a one-digit number using the written method of short division and find the remainder; writing it as a fraction or decimal.</i>
	<i>I can multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</i>		<i>I can quickly and accurately mentally multiply and divide whole numbers and those involving decimals by 10, 100 and 1000.</i>

	<i>I know what square numbers and cube numbers are, including the notation for squared (2) and cubed (3).</i>		<i>I square numbers and cube numbers are, including the notation for squared (2) and cubed (3) to solve problems.</i>	
K	<i>I can solve multiplication and division problems using my knowledge of factors and multiples, squares and cubes.</i>		<i>I can use efficient methods of multiplication and division to solve problems including using my knowledge of factors and multiples, squares and cubes.</i>	
	<i>I can solve more difficult problems involving addition, subtraction, multiplication and division and a combination of these.</i>		<i>I can use efficient methods of calculation to solve more difficult problems involving addition, subtraction, multiplication and division and a combination of these.</i>	
K	<i>I can solve problems including scaling by simple fractions and problems involving simple rates.</i>		<i>I can solve more complex problems including scaling by fractions and problems involving simple rates.</i>	
Fractions				
K	<i>I can compare and order fractions whose denominators are all multiples of the same number.</i>		<i>I can compare and order fractions whose denominators are all multiples of the same number, and can use this in different subject areas.</i>	
	<i>I can name and write equivalent fractions of a given fraction, and show these in a drawing (including tenths and hundredths).</i>		<i>I can name and write a range of equivalent fractions of a given fraction independently, and show these in a drawing (including tenths and hundredths).</i>	
	<i>I know what mixed numbers and improper fractions are and I can convert from one to the other [for example, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].</i>		<i>I solve real-life problems involving mixed numbers and improper fractions and I can convert from one to the other [for example, $2/5 + 4/5 = 6/5 = 1 \frac{1}{5}$].</i>	
	<i>I can add and subtract fractions with the same denominator and denominators that are multiples of the same number.</i>		<i>In different subjects, I can independently add and subtract fractions with the same denominator and denominators that are multiples of the same number.</i>	
	<i>I use diagrams and some fraction tools to multiply proper fractions ($7/10$) and mixed numbers ($1 \frac{7}{10}$) by whole numbers.</i>		<i>I can multiply proper fractions ($7/10$) and mixed numbers ($1 \frac{7}{10}$) by whole numbers.</i>	
K	<i>I can read and write decimal numbers as fractions [for example, $0.71 = 71/100$].</i>		<i>I can read and write decimal numbers as fractions [for example, $0.71 = 71/100$] and simplify them where possible.</i>	
	<i>I know what thousandths are and how to use them with tenths, hundredths and decimals.</i>		<i>I use thousandths, tenths, hundredths and decimals across different subject areas.</i>	
	<i>I can round decimals with two decimal places to the nearest whole number and to one decimal place.</i>		<i>I can confidently round decimals with two decimal places to the nearest whole number and to one decimal place and use this in different subjects to present information.</i>	
K	<i>I can read, write, order and compare numbers with up to three decimal places.</i>		<i>I can read, write, order and compare numbers with up to three decimal places independently.</i>	
	<i>I can solve problems involving numbers with up to three decimal places.</i>		<i>I can solve real-life problems involving numbers with up to three decimal places using efficient methods of calculation.</i>	
	<i>I know what the per cent symbol is (%) and understand that per cent relates to 'parts per hundred', and write percentages as a fraction with denominator 100, and as a decimal.</i>		<i>I can confidently relate percentages with their fraction and decimal equivalences.</i>	
K	<i>I work on 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.</i>		<i>I work on real-life and practical problems which require knowing percentage and decimal equivalents of those fractions with a denominator of a multiple of 10 or 25.</i>	
Measurement				
K	<i>I can convert between different units of metric measure (for example, kilometre and metre;</i>		<i>I can convert between a wider span of metric measure (for example, kilometre and centimetre; metre</i>	

	<i>centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre).</i>		<i>and millimetre; gram and kilogram; litre and millilitre) and use this to solve real-life problems.</i>	
	<i>I can change metric units to become imperial units such as inches, pounds and pints.</i>		<i>Solve problems in a range of different subjects involving equivalences between metric units and common imperial units such as inches, pounds and pints.</i>	
K	<i>I can calculate the perimeter of multi-shape shapes in centimetres and metres.</i>		<i>I can calculate the perimeter of multi-shape shapes in centimetres and metres and use this to solve practical problems.</i>	
K	<i>I can calculate the area of rectangles in square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</i>		<i>I can calculate the area of compound rectangles in square centimetres (cm²) and square metres (m²) and estimate the area of irregular shapes.</i>	
	<i>I can estimate volume [for example, using 1 cm³ blocks to build cuboids] and capacity [for example, using water].</i>		<i>I can accurately estimate volume [for example in m³] and capacity [for example in quantities of litres]</i>	
	<i>I can convert between the units of time.</i>		<i>I can convert between different the units of time into one common measurement to solve problems.</i>	
	<i>I can solve more difficult problems which involve units of measurement, decimal numbers and scales.</i>		<i>I can combine several mathematical operations to solve more difficult problems which involve units of measurement, decimal numbers and scales.</i>	
Shape				
	<i>I can identify 3-D shapes, including cubes and other cuboids, from 2-D drawings.</i>		<i>I can identify and create 3-D shapes, including cubes and other cuboids, from 2-D drawings and nets.</i>	
	<i>I know that angles are measured in degrees and I can estimate and compare acute, obtuse and reflex angles.</i>		<i>I can measure, classify, order and compare acute, obtuse and reflex angles.</i>	
K	<i>I can draw a given angle (such as 47°), and then measure them in degrees (°).</i>		<i>I can accurately draw a given angle (such as 47°), and then measure them in degrees (°) and use this to construct shapes.</i>	
	<i>I know one whole turn - or a set of angles all around a point - measure a total of 360°.</i>		<i>I can solve more difficult problems by finding angles around a point and in one whole turn.</i>	
	<i>I know that a straight line - or angles that add up to a straight line - measure 180°.</i>		<i>I know that a straight line - or angles that add up to a straight line - measure 180° and use this to solve real-life problems.</i>	
	<i>I can identify multiples of 90° (right angles).</i>		<i>I can identify multiples of 90° (right angles) and use this to solve problems.</i>	
	<i>I can find the missing lengths and angles of a rectangle.</i>		<i>I can find the missing lengths and angles of compound rectangles.</i>	
K	<i>I know regular shapes have equal sides and angles and irregular shapes do not have equal sides and angles.</i>		<i>I can identify and compare regular shapes and irregular shapes independently.</i>	
Position				
	<i>can reflect or translate a shape on a grid.</i>		<i>I can reflect or translate complex shapes on a grid.</i>	
Statistics				
	<i>I can solve problems using a line graph to find the answers.</i>		<i>I can solve problems using a line graph to find the answers across different subjects.</i>	
K	<i>I can find the information I need from a timetable or large table of data.</i>		<i>I can find the information I need from a timetable or large table of data to solve problems.</i>	