

BRACKENWOOD JUNIOR SCHOOL

Year 5 Mathematics Curriculum Overview

Number and Place Value	Addition and	Multiplication and Division	Fractions, Decimals, Percentages and Ratio	
	Subtraction		, , ,	
I know that 10 tenths 100 hundredths are equivalent to one 1 and that 1 is ten times the	I can add and subtract	I can divide 1 into 2,4,5 and 10 equal parts. (KPI8)	I can compare and order fractions whose denominators are all multiples of the same number	
size of one tenth and 100 times the size of one	whole numbers with			
hundredth. I can work out how many	more than 4 digits,	I can identify multiples and factors, including finding all factor pairs of a	I can identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths (KPI14)	
hundreds there are in four digit multiples of	including using formal written methods	number, and common factors of two numbers		
100. (KPI1)	(columnar addition and	I know and use the vocabulary of prime numbers, prime factors and		
I can read, write, order and compare numbers	subtraction) (KPI7)	composite (non-prime) numbers	I can recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements > 1 as	
to at least 1 000 000 and determine the value	Subtraction) (Rt 17)			
of each digit (KPI2)	I can add and subtract numbers mentally with	I can establish whether a number up to 100 is prime and recall prime	a mixed number [for example, two-fifths + four-fifths = six fifths = 1 and 1-fifth (KPI15)	
I can count forwards or backwards in steps of		numbers up to 19 (KPI9)		
powers of 10 for any given number up to 1 000 000	increasingly large numbers	I can multiply numbers up to 4 digits by a one- or two-digit number	I can add and subtract fractions with the same denominator and	
I can recognise the place value of each digit in	I can mentally add two decimal numbers to one decimal place.	using a formal written method, including long multiplication for two-	denominators that are multiples of the same number (KPI16)	
numbers with up to two decimal places.		digit numbers (KPI10)		
(KPI3)			I can multiply proper fractions and mixed numbers by whole numbers,	
I can read, write, order and compare numbers	I can use rounding to check answers to calculations and	I can multiply and divide numbers mentally drawing upon known facts	supported by materials and diagrams	
with up to three decimal places (KPI4)	determine, in the context of	I can divide numbers up to 4 digits by a one-digit number using the	I can read and write decimal numbers as fractions [for example, 0.71 = 71	
with up to timee decimal places (KF14)	a problem, levels of	formal written method of short division and interpret remainders	hundredths	
I can interpret negative numbers in context,	accuracy	appropriately for the context (KPI11)	I can recognise and use thousandths and relate them to tenths,	
count forwards and backwards with positive	I can solve addition and	I can multiply and divide whole numbers and those involving	hundredths and decimal equivalents (KPI17)	
and negative whole numbers, including	subtraction multi-step		nunureutiis and decimal equivalents (KF117)	
through zero (KPI5)	problems in contexts, deciding which operations	decimals by 10, 100 and 1000 (KPI12)	I can round decimals with two decimal places to the nearest whole number and to one decimal place(KPI18)	
I can round any number up to 1 000 000 to	and methods to use and	I can recognise and use square numbers and cube numbers and the		
the nearest 10, 100, 1000, 10 000 and 100	why.	notation for squared (2) and cubed (3) (KPI13)	I can solve problems involving number up to three decimal places	
000 (KPI6)		I can solve problems involving multiplication and division including using their		
, ,		knowledge of factors and multiples squares and cubes	I can recognise the per cent symbol (%) and understand that per cent	
I can solve number problems and practical problems that involve all of the above		I can solve problems involving addition, subtraction, multiplication and division	relates to 'number of parts per hundred', and write percentages as a	
		and a combination of these, including understanding the meaning of the	fraction with denominator 100, and as a decimal (KPI19)	
I can read Roman numerals to 1000 (M) and recognise years written in Roman numerals.		equals sign	I can solve problems which require knowing percentage and decimal equivalents	
		I can solve problems involving multiplication and division, including scaling by	of half, quarter, fifth, two fifths and four fifths and those fractions with a	
		simple fractions and problems involving simple rates.	denominator of a multiple of 10 or 25.	

Measurement	Shapes and Space	Statistics
I can convert between different units of metric measure (for example, kilometre and metre;	I can identify 3-D shapes, including cubes and other cuboids, from 2-D representations	I can solve
centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre) (KPI20) I can understand and use approximate equivalences between metric units and common imperial units such as	I know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles (KPI22)	comparison, sum and difference problems using information
inches, pounds and pints	I can draw given angles, and measure them in degrees (o) (KPI23)	
I can measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres	I can identify angles at a point and one whole turn (total 360o) (KPI24)	presented in a line
I can calculate and compare the area of rectangles (including squares), and including using	I can identify angles at a point on a straight line and half a turn (KPI25)	graph
standard units, square centimetres (cm²) and square metres (m²) and estimate the area of	I can identify other multiples of 90o	I can complete, read and interpret
irregular shapes (KPI21)	I can use the properties of rectangles to deduce related facts and find missing lengths and angles	information in tables,
I can estimate volume [for example, using 1 cm³ blocks to build cuboids (including cubes)] and capacity [for example, using water]	I can distinguish between regular and irregular polygons based on reasoning about equal sides and angles.	including timetables.
I can solve problems involving converting between units of time	I can identify, describe and represent the position of a shape following a reflection or translation, using the	
I can use all four operations to solve problems involving measure using decimal notation, including scaling.	appropriate language, and know that the shape has not changed.	