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Mathematical Vocabulary for the New National Curriculum

- This document sets out the language associated with mathematics under the new National Curriculum.
- The tables can be used by teachers, learning support assistants, parents and governors, to check pupils' understanding of new vocabulary as it is introduced.
- The lists are intended to be used as a guide to what pupils should know, and are not exhaustive.

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New Mathematical Vocabulary for Year 3						
Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
numbers to one thousand compare and order numbers place value, hundreds, tens, ones estimate Roman numerals 1 to 12 (I to XII)	formal written methods column addition and subtraction inverse operation	product multiples of three, four, eight, fifty and one hundred short multiplication	numerator, divisor, denominator unit fraction, non-unit fraction compare and order fractions tenths add and subtract fractions	length (mm, cm, m and km) mass (g and kg) capacity/volume (ml and l) perimeter pounds and pence am and pm seconds, minutes, hours morning, afternoon, noon and midnight day, month, year, leap year	2d and 3d orientation angle, right angle quarter turn, half turn, three quarter turn and full turn greater or less than a right angle horizontal and vertical lines perpendicular and parallel lines	bar chart table pictogram axis, axes diagram

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New Mathematical Vocabulary for Year 4

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
four-digit numbers	formal written methods	multiples of 6, 7, 9, 25 and 1000	equivalent fractions	convert	quadrilaterals	interpret and present
thousands, hundreds, tens and ones	column addition and subtraction	multiplication and division facts up to 12 x 12	hundredths, tenths	unit of measure	triangles	continuous data
more than, less than	estimate	factors	whole number	area	polygon	discrete data
zero	inverse operation	scaling	calculate quantities	perimeter	properties	bar chart
negative numbers	two-step problems	short multiplication	add and subtract fractions	rectilinear shapes	acute and obtuse angles	time graph
round	sum		decimal equivalents	compare and calculate measures	lines of symmetry	pictogram
Roman numerals 1 to 100 (I to C)	difference			analogue and digital time	coordinates	tables
					first quadrant	
					position	
					translation	
					up, down, left and right	

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New Mathematical Vocabulary in Year 5

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Measurement	Geometry	Statistics
one million	formal written methods	multiples	compare and order fractions	convert	visualisation	comparison
hundreds of thousands, tens of thousands, thousands, hundreds, tens, ones	column addition and subtraction	factors	equivalent fractions	units of measure	regular and irregular polygons	sum
powers of ten	rounding	factor pairs	mixed numbers	equivalences	2d representations	difference
positive and negative numbers	inverse operations	common factors	improper fractions	metric, imperial	angles	line graph
round		prime numbers	tenths, hundredths, thousandths	inch, pint, pound	degrees	complete, read, interpret
Roman numerals 1-1000 (I to M)		long multiplication	percentage equivalents	measure and calculate area and perimeter	acute, obtuse, reflex, right angle	timetables
		short division	decimal equivalents	estimate areas of irregular shapes	straight line	
		remainder		estimate volume	full turn	
		squared numbers ⁽²⁾			reflection	
		cubed numbers ⁽³⁾			translation	
		equals sign				
		scaling including fractions				

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New Mathematical Vocabulary in Year 6

Number and Place Value	Addition and Subtraction	Multiplication and Division	Fractions	Ratio and Proportion	Algebra	Measurement	Geometry	Statistics
ten million millions, hundreds of thousands, tens of thousands, thousands, hundreds, tens, ones positive and negative numbers round	formal written methods column addition and subtraction rounding inverse operations order of operations BIDMAS	multiples factors factor pairs common factors common multiples prime numbers long and short multiplication long and short division squared numbers ⁽²⁾ cubed numbers ⁽³⁾	compare and order fractions equivalent fractions simplify fractions add and subtract fractions multiply and divide fractions percentage equivalents decimal equivalents	relative size calculation of percentages scale factor	formulae linear number sequences missing numbers equation possible combinations two unknowns variables	calculate and convert units of measure equivalences metric, imperial miles, kilometres formulae for area formulae for volume calculate area of parallelograms and triangles	dimensions angles nets unknown angles triangles quadrilaterals regular polygons circle radius, diameter and circumference four quadrants translations	interpret construct pie charts line graphs average mean

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Column Addition

789 + 642 becomes

$$\begin{array}{r} 789 \\ + 642 \\ \hline 1431 \\ \hline 1 \quad 1 \end{array}$$

Answer: 1431

Column Subtraction

874 - 523 becomes

$$\begin{array}{r} 874 \\ - 523 \\ \hline 351 \end{array}$$

Answer: 351

932 - 457 becomes

$$\begin{array}{r} 8 \quad 12 \quad 1 \\ 932 \\ - 457 \\ \hline 475 \end{array}$$

Answer: 475

Short Multiplication

24 × 6 becomes

$$\begin{array}{r} 24 \\ \times 6 \\ \hline 144 \\ \hline 2 \end{array}$$

Answer: 144

342 × 7 becomes

$$\begin{array}{r} 342 \\ \times 7 \\ \hline 2394 \\ \hline 2 \quad 1 \end{array}$$

Answer: 2394

2741 × 6 becomes

$$\begin{array}{r} 2741 \\ \times 6 \\ \hline 16446 \\ \hline 4 \quad 2 \end{array}$$

Answer: 16 446

Long Multiplication

124 × 26 becomes

$$\begin{array}{r} 1 \quad 2 \\ 124 \\ \times 26 \\ \hline 744 \\ 2480 \\ \hline 3224 \\ \hline 1 \quad 1 \end{array}$$

Answer: 3224

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Short Division

$98 \div 7$ becomes

$$\begin{array}{r} 14 \\ 7 \overline{) 98} \\ \underline{7} \\ 28 \\ \underline{28} \\ 0 \end{array}$$

Answer: 14

$432 \div 5$ becomes

$$\begin{array}{r} 86 \text{ r}2 \\ 5 \overline{) 432} \\ \underline{40} \\ 32 \\ \underline{30} \\ 2 \end{array}$$

Answer: 86 remainder 2

$496 \div 11$ becomes

$$\begin{array}{r} 45 \text{ r}1 \\ 11 \overline{) 496} \\ \underline{44} \\ 56 \\ \underline{55} \\ 1 \end{array}$$

Answer: $45\frac{1}{11}$

Long Division

$432 \div 15$ becomes

$$\begin{array}{r} 28.8 \\ 15 \overline{) 432.0} \\ \underline{30} \\ 132 \\ \underline{120} \\ 120 \\ \underline{120} \\ 0 \end{array}$$

Answer: 28.8