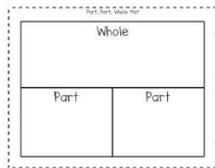


# Maths Vocabulary Support



The links below may help to explain the vocabulary your children are using with their maths learning in school:

**Part part whole:** seeing numbers being made of two or more parts.



<http://www.teach-kids-math-by-model-method.com/part-whole-concept.html>

<https://www.youtube.com/watch?v=vzeeaxLQDkE>

**Regrouping:**

When adding two-digit numbers, children will be looking at the ones and deciding if they can **regroup** them for a ten. You might want to equate **regrouping** with trading, a term that they will understand immediately. Children begin to add two-digit numbers by using tens and ones blocks.

Think: I have 1 ten and 4 ones. I want to add 7 ones.

Think: I know that  $4 + 7$  is 11, so I can make a ten.

Do I need to regroup?

2 tens 1 one = 21

**Rebalancing:** changing the numbers within a number sentence to ‘rebalance’ the calculation to make it easier to add (or subtract or any other operation). For example,  $16 + 39$  is calculated as  $15 + 40$  because 15 and 40 are much easier numbers to add than 16 and 39.

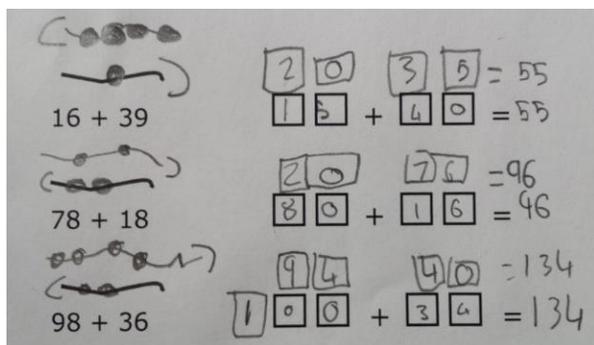


Photo from <https://blogs.hertsforlearning.co.uk/2017/05/29/rebalancing-sums-and-the-ripple-effect/>

The tables below set out Key Stage (KS) 1 and KS2 maths vocabulary under the new National Curriculum. The tables can be used to check pupils' understanding of new vocabulary introduced in years 1-6. The lists are intended as a guide to what pupils should know, and are not exhaustive.

New maths vocabulary for year 1							
Number and place value	Addition and subtraction	Multiplication and division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions	General/problem solving
Number	Number bonds, number line	Odd, even	Full, half full, empty	Position	Group, sort	Whole	Listen, join in
Zero, one, two, three to twenty, and beyond	Add, more, plus, make, sum, total, altogether	Count in twos, threes, fives	Holds	Over, under, underneath, above, below, top, bottom, side	Cube, cuboid, pyramid, sphere, cone, cylinder, circle, triangle, square	Equal parts, four equal parts	Say, think, imagine, remember
None	Inverse	Count in tens (forwards from/backwards from)	Container	on, in, outside, inside	Shape	One half, two halves	Start from, start with, start at
			Weigh, weighs, balances				Look at, point to
			Heavy, heavier, heaviest, light, lighter, lightest				

Count (on/up/to/from/ down)	Double, near double	How many times?	Scales	around, in front, behind	Flat, curved, straight, round	A quarter, two quarters	Put, place, fit
Before, after	Half, halve	Lots of, groups of	Time	Front, back	Hollow, solid		Arrange, rearrange
More, less, many, few, fewer, least, fewest, smallest, greater, lesser	Equals, is the same as (including equals sign)	Once, twice, three times, five times	Days of the week: Monday, Tuesday, etc.	Before, after	Corner (point, pointed)		Change, change over
Equal to, the same as	Difference between	Multiple of, times, multiply, multiply by	Seasons: spring, summer, autumn, winter	Beside, next to, Opposite	Face, side, edge		Split, separate
Odd, even	How many more to make..? How many more is...than..?	Repeated addition	Day, week, month, year, weekend	Apart	Make, build, draw		Carry on, continue, repeat & what comes next?
Pair	How much more is..?	Array, row, column	Birthday, holiday	Between, middle, edge, centre			Find, choose, collect, use, make, build
Units, ones, tens	Subtract, take away, minus	Double, halve	Morning, afternoon, evening, night, midnight	Corner			Tell me, describe, pick out, talk about, explain, show me
Ten more/less	How many fewer is...than..?	Share, share equally	Bedtime, dinnertime, playtime	Direction			Read, write, record, trace, copy, complete, finish, end
Digit	How much less is..?	Group in pairs, threes, etc.	Today, yesterday, tomorrow	Journey			Fill in, shade, colour, tick, cross, draw, draw a line between, join (up), ring, arrow
Numeral		Equal groups of	Before, after	Left, right, up, down, forwards, backwards, sideways			Cost
Figure(s)		Divide, divided by, left, left over	Next, last	Across			Count, work out, answer, check same number(s)/different
Compare			Now, soon, early, late	Close, far, near			
(In) order/a different order			Quick, quicker, quickest, quickly , fast, faster, fastest, slow, slower, slowest, slowly	Along, through			
Size			Old, older, oldest, new, newer, newest	To, from, towards, away from			
Value			Takes longer, takes less time	Movement			
			Hour, o'clock, half past	Slide, roll, turn, whole turn, half turn			

<p>Between, halfway between</p> <p>Above, below</p>			<p>Clock, watch, hands</p> <p>How long ago? How long will it be to...? How long will it take to...? How often?</p> <p>Always, never, often, sometimes, usually</p> <p>Once, twice</p> <p>First, second, third, etc.</p> <p>Estimate, close to, about the same as, just over, just under</p> <p>Too many, too few, not enough, enough</p> <p>Length, width, height, depth</p> <p>Long, longer, longest, short, shorter shortest, tall, taller, tallest, high, higher, highest</p> <p>Low, wide, narrow, deep, shallow, thick, thin</p> <p>Far, near, close</p> <p>Metre, ruler, metre stick</p> <p>Money, coin, penny, pence, pound, price, cost, buy, sell, spend, spent, pay, change, dear(er), costs more, costs less, cheaper, costs the same as</p>	<p>Stretch, bend</p>			<p>number(s)/missing number(s)</p> <p>Number facts, number line, number track, number square, number cards</p> <p>Abacus, counters, cubes, blocks, rods, die, dice, dominoes, pegs, peg board</p> <p>Same way, different way, best way, another way</p> <p>In order, in a different order</p> <p>Not all, every, each</p>
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			How much? How many? Total				
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New maths vocabulary for year 2						
Number and place value	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions	Data/statistics	General/problem solving
Numbers to one hundred Hundreds Partition, recombine Hundred more/less	Quarter past/to m/km, g/kg, ml/l Temperature (degrees)	Rotation Clockwise, anticlockwise Straight line Ninety degree turn, right angle	Size Bigger, larger, smaller Symmetrical, line of symmetry Fold Match Mirror line, reflection Pattern, repeating pattern	Three quarters, one third, a third Equivalence, equivalent	Count, tally, sort Vote Graph, block graph, pictogram, Represent Group, set, list, table Label, title Most popular, most common, least popular, least common	Predict Describe the pattern, describe the rule Find, find all, find different Investigate

### New maths vocabulary for year 3

Number and place value	Addition and subtraction	Multiplication and division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions	Data/statistics
Numbers to one thousand	Column addition and subtraction	Product  Multiples of four, eight, fifty and one hundred  Scale up	Leap year  Twelve-hour/twenty-four-hour clock  Roman numerals I to XIII	Greater/less than ninety degrees  Orientation (same orientation, different orientation)	Horizontal, perpendicular and parallel lines	Numerator, denominator  Unit fraction, non-unit fraction  Compare and order  Tenths	Chart, bar chart, frequency table, Carroll diagram, Venn diagram  Axis, axes  Diagram

### New maths vocabulary for year 4

Number and place value	Multiplication and division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions and decimals	Data/statistics
Tenths, hundredths Decimal (places)  Round (to nearest) thousand more/less than  Negative integers  Count through zero  Roman numerals (I to C)	Multiplication facts (up to 12x12)  Division facts  Inverse  Derive	Convert	Coordinates  Translation  Quadrant  X-axis Y-axis  Perimeter and area	Quadrilaterals  Triangles  Right angle, acute and obtuse angles	Equivalent decimals and fractions	Continuous data  Line graph

New maths vocabulary for year 5						
Number and place value	Addition and subtraction	Multiplication and division	Measure	Geometry (position and direction)	Geometry (properties of shape)	Fractions, decimals and percentages
Powers of 10	Efficient written method	Factor pairs  Composite numbers, prime number, prime factors, square number, cubed number  Formal written method	Volume  Imperial units, metric units	Reflex angle  Dimensions	Regular and irregular Polygons	Proper fractions, improper fractions, mixed numbers  Percentage  Half, quarter, fifth, two fifths, four fifths  Ratio, proportion

New maths vocabulary for year 6							
Number and place value	Addition and subtraction	Multiplication and division	Geometry (position and direction)	Geometry (properties of shape)	Fractions, decimals and percentages	Algebra	Data/statistics
Numbers to ten million	Order of operations	Order of operations  Common factors, common multiples	Four quadrants (for coordinates)	Vertically opposite (angles)  Circumference, radius, diameter	Degree of accuracy  Simplify	Linear number sequence  Substitute  Variables  Symbol  Known values	Mean  Pie chart  Construct