

Church of England Primary School Kirkby Lonsdale

### St Mary's CE School

# Mathematical Vocabulary

Year 3

#### Mathematics vocabulary list Year 3

Maths is its own language. Sometimes that language looks like written word and sometimes it looks like symbols, but it is a language and it must be learned for math fluency and competency. If your child does not have a good understanding of key mathematical vocabulary, it can hinder themin making good progress in maths and in other areas of the curriculum.

At St Mary's, we explicitly teach maths vocabulary, giving it a context and allowing childrento apply it in a variety of problems.

Listed below are the key mathematical terms your child will learn this year. This is the minimum we expect children to learn; however, we know children are curious and will undoubtedly want to learn more and we encourage this.

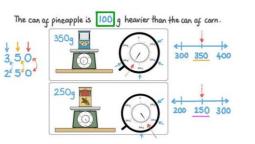
<u>Vocabulary</u>	<u>Definition</u>	<u>Example</u>	
	Number and Place Value		
Approximate	Anything that is similar, but not exactly equal, to something else.	'The <b>approximate</b> answer to 199 + 100 is 300 because 199 is very close to 200.'	
Formal written method	A way of carrying out a calculation which is done on paper rather than entirely mentally.	8 7 4 - 5 2 3 3 5 1	
Numbers 101- 1,000	'One hundred and one, one hundre nine, one thousand.'	ed and two nine hundred and ninety-	
Place holder	A place holder is a zero used in any place value column (that contains a value of zero) to clarify the relative positions of the digits in other places.	'I need to use a <b>place holder</b> in the ones column to make it clear that my number is 320 and not 32.'	
Relationship	A mathematical relation is, a relationship between sets of numbers or sets of element.	'What is the <b>relationship</b> between multiplication and division?'	
Round	Approximate a number, normally to the nearest multiple of ten, to make it easier with which to calculate.	'I would <b>round</b> the number 17 to 20 because it is three away from 20 but seven away from 10.'	

	Addition and a law			
	Addition and subtrac	ction		
Columnar addition/subtraction	The formal written algorithms for addition and subtraction that are exemplified in Mathematics Appendix 1 of the 2014 national curriculum.	Addition and subtraction         789 + 642 becomes       874 - 523 becomes         789 + 642 becomes       874 - 523 becomes         140 + 642		
	Multiplication and di	vision		
Factor	A number, that when multiplied with one or more other factors, makes a given number.	'The number six has four <b>factors</b> : 1, 2,3 and 6.'		
Product	The result you get when you multiply two numbers.	'24 is the <b>product</b> of 3 and 8.'		
Fractions				
Sixths, sevenths, eighths, tenths	The fraction equal to one divided by six. The fraction equal to one divided by seven etc.	'One <b>sixth</b> plus four <b>sixths</b> is equal to five <b>sixths</b> '.		
	Length			
Distance from/to	How far away something is.	'What is the <b>distance</b> from house A to house B on the map?'		
Kilometre	A metric unit measure of length that is equal to one thousand metres.	'The distance from the school to Arun's house was exactly one kilometre.'		
Millimetre	A metric unit measure of length that is equal to one thousandth of one metre.	'The length of Philippa's ruler is 300 millimetres.'		
Perimeter	The perimeter of a 2-D shape is the total distance around its exterior.			

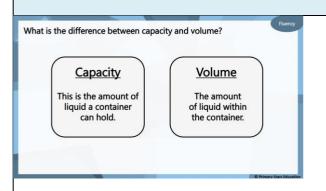
## Weight stically

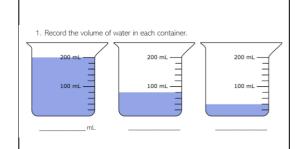
Children learn the units of weight and to practically compare weight as well as solving problems using weight.

compare, grams, kilograms, measure, scales,



### Capacity and volume





### **Temperature**

Centigrade	The Celsius scale of	'The temperature outside is 22
	temperature.	degrees <b>centigrade</b> '

	temperature.	uegrees <b>centigrade</b>
Time		
12-hour clock time	The 12-hour clock notation usesam and pm to indicate morning and afternoon.	'The time is 12.45pm on a <b>12-hour</b> clock'.  10 12 1 2 1 2 1 2 1 3 1 3 1 3 1 1 1 1 1 1
24-hour clock time	A way of telling the time in whichthe day runs from midnight to midnight and is divided into 24	'The time is 1245 on a 24-hour clock'.

hours, numbered from 0 to

24.

AM	The abbreviation a.m. stands for the Latin ante meridiem, meaning before.	The time is 9.00am'.  Expressing Time in a.m. and p.m.  Midnight  O:00 03:00 06:00 09:00 12:00 15:00 18:00 21:00 00:00  Omath-only1 brown  12:00 3:00 6:00 9:00 12:00 3:00 6:00 9:00 12:00  a.m. a.m. a.m. a.m. p.m. p.m. p.m. p.m.
Calendar	A chart or series of pages showing the days, weeks, and months of a particular year, orgiving particular seasonal information.	FEBRUARY  Sun Mon Tue Wed Thu Fri Sat  1 2 3 4  5 6 7 8 9 10 11  12 13 14 15 16 17 18  19 20 21 22 23 24 25  26 27 28 29
Century	A period of 100 years.	'WW1 ended just over a <b>century</b> ago'.
Earliest	Happening or done before theusual or expected time.	'What is the <b>earliest</b> that you can arrive at school?'
Latest	Of most recent date.	'The <b>latest</b> you can finish your lunch is 12.30pm'
PM	The abbreviation p.m. stand for the Latin post meridiem, meaningafter midday.	The time is 9.00pm'.  Expressing Time in a.m. and p.m.  Midnight  0:00 03:00 06:00 09:00 12:00 15:00 18:00 21:00 00:00  Cmath-only-lineor  12:00 3:00 6:00 9:00 12:00 3:00 6:00 9:00 12:00  a.m. a.m. a.m. a.m. p.m. p.m. p.m. p.m.
Roman numerals	Roman numerals are a system of symbols used to represent numbers that were developed and used by the Romans. They donot use a place value system.	'The number twelve on this clock is represented by the Roman numeralsXII, which is 10 + 1 + 1.'

	2d shape	
Irregular	In geometry, irregular is a term used to describe shapes that are not regular (see below).	Irregular Polygons  Irregular polygons have sides that are not equal to each other and angles that are not equal to each other.  Irregular Irregular Irregular Pentagon Quadrilateral 3 sides 5 sides 4 sides
Parallel	Line segments that can be described as parallel must be on the same plane and will never meet, regardless of how far either or both line segments are extended.	
Perpendicular	A pair of line segments (or surfaces) can be described as perpendicular if they intersect at (or form) a right angle.	
Regular	Regular 2-D shapes (regular polygons) have angles that are all equal and side lengths that are all equal. Regular 3-D shapes (the Platonic Solids) are those that have congruent (exactly the same) faces of a single regular polygon.	'A square is a <b>regular</b> 2-D shape because all four angles are right angles and all four sides are the same length. A cube is a <b>regular</b> 3-D shape with six identical square faces.'

3d shape			
Hemisphere	A hemisphere is a 3D geometric figure that is half of a sphere.		
Prism	A prism is a 3-D solid with two identical, parallel bases and otherwise rectangular faces.	Triangular Prism  Cuboid  Cube  Cyfinder  Trapazoidal Prism  Pentagonal Prism	
Square- based/triangular based pyramid	A pyramid is a 3-D shape with a 2-D shape (which gives the pyramid its name) as a base and triangular faces that taper to a point called a vertex or apex.	apex	
	Position and direction		
Acute angle	An angle that is smaller than a right angle.	acute angle	
Compass point	The directions on the magnetic compass. The 4 main points are North, South, East and West.	North  north-west  West  South-west  South	

Diagonal	A diagonal is a straight line joining two nonadjacent vertices of a shape, that is, two corners of a shape that are not next to each other.	Triangle 3 sides 4 sides 5 sides 6 sides 0 diagonals 2 diagonals 5 diagonals 9 diagonals
Horizontal	A line that runs right and left across the page.	Vertical line  Horizontal line
North, south, east, west	Cardinal directions.	'The boy moves four squares <b>north</b> and three squares <b>west</b> .'
Obtuse angle	An angle that is greater than a right angle but less than 180 degrees.	OBTUSE ANGLE measure more than 90 degrees
Vertical	A line that runs top to bottom down the page.	Vertical line  Horizontal line
	Statistics	
Axis (plural axes)	A real or imaginary reference line. The y-axis (vertical) and x-axis (horizontal) on charts and graphs are used to show the measuring scale or labels for the variables.	'The y- <b>axis</b> on this bar graph shows you how many pupils preferred eachcolour.'
Bar graph	A representation of data in which the frequencies are represented by the height or length of the bars.	'This <b>bar graph</b> shows us the preferred colours of the pupils in ourYear 3 class.'
Carroll diagram	A way of sorting objects, numbers and shapes by their traits.  Invented by Lewis Carroll	Shapes with curved lines  Pink Shapes  Blue Shapes

Frequency	The number of times an event or a value occurs	'Football was chosen by most of the children in the class- it was the most frequent sport played at lunchtime'.
Horizontal	Horizontal refers to planes and line segments that are parallel to the horizon.	'The x-axis on a graph should be horizontal.'
Venn diagram	An illustration that uses circles to show the relationships among things or finite groups of things.  Invented by John Venn	10 5 25 31 8  Numbers in the 5x table 5 10 25 31