Broadway Junior School

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Mathematics Vocabulary List

Year 3

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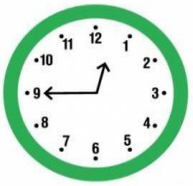
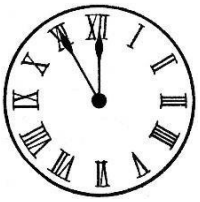
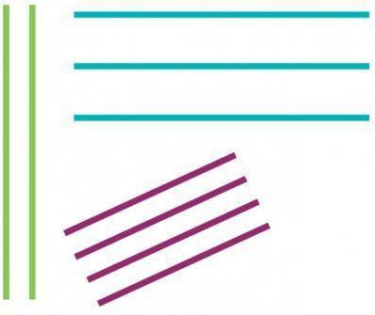
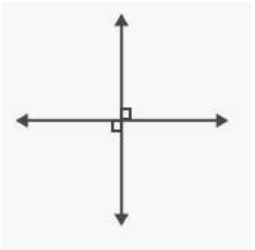
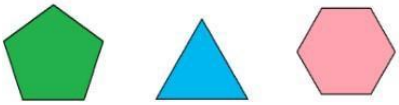
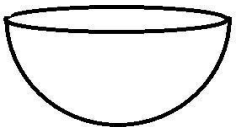
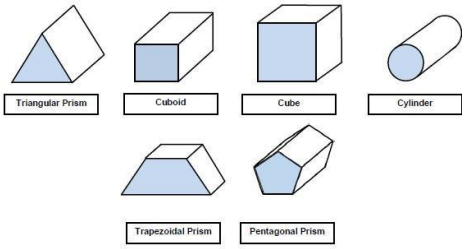
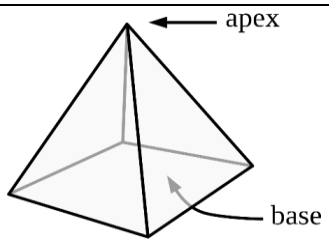
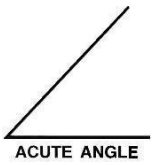
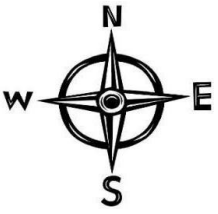
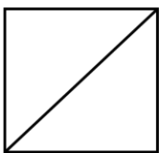
Maths is its own language. Sometimes that language is the written word and sometimes it is symbols, but it is a language that needs to be learned for fluency and competency in maths. If a child does not have an understanding of key mathematical vocabulary, it can hinder them in making good progress in maths and in other areas of the curriculum. At Broadway Junior School, we explicitly teach maths vocabulary, giving it a context and allowing children to apply it in a variety of problems.

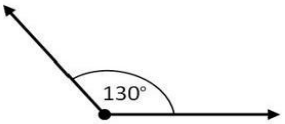
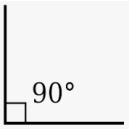
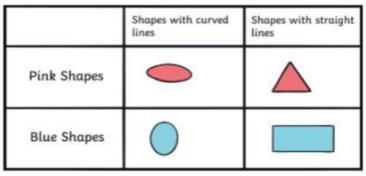
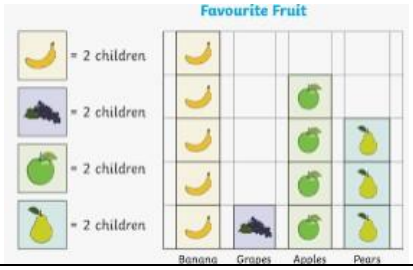
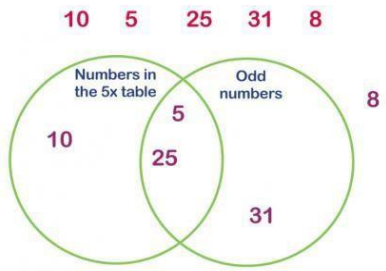
Listed below are the key mathematical terms that your child will learn and use in their Maths lessons during Year 3.

Vocabulary	Definition	Example
Number and Place Value		
Approximate	Anything that is similar, but not exactly equal, to something else.	*'The **approximate** answer to 199 + 100 is 300 because 199 is very close to 200.'*
Numbers 101- 1,000	***'One hundred and one, one hundred and two... nine hundred and ninety-nine, one thousand.'***	
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 **place holder** 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 **relationship** 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 **round** the number 17 to 20 because it is three away from 20 but seven away from 10. '*
Addition and Subtraction		
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 7 8 9 + 6 4 2 1 4 3 1 1 1 Answer: 1431 874 – 523 becomes 8 7 4 – 5 2 3 3 5 1 Answer: 351
Formal written method	A way of carrying out a calculation which is done on paper rather than entirely mentally.	874 – 523 becomes 8 7 4 – 5 2 3 3 5 1 Answer: 351
Multiplication and Division		
Factor	A number, that when multiplied with one or more other factors, makes a given number.	*'The number six has four **factors**: 1, 2, 3 and 6.'*
Product	The result you get when you multiply two numbers.	*'24 is the **product** 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 **sixth** plus four **sixths** is equal to five **sixths**'.*
Length		
Distance from/to	How far away something is.	*'What is the **distance** 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.	
Distance from/to	How far away something is.	*'What is the **distance** from house A to house B on the map?'*
Weight		
Kilogram	A metric unit measure of mass that is equal to one thousand grams.	*'The pineapple weighs exactly one **kilogram**.'*
Capacity and Volume		
Millilitre	A metric unit measure of volume that is equal to one thousandth of one litre.	*'This 2 litre bottle of Coke has 2,000 **millilitres**.'*
Temperature		
Centigrade	The Celsius scale of temperature.	*'The temperature outside is 22 degrees **centigrade**'*
Time		
12-hour clock time	The 12-hour clock notation uses am and pm to indicate morning and afternoon.	*'The time is 12.45pm on a **12-hour clock'.*** 
24-hour clock time	A way of telling the time in which the day runs from midnight to midnight and is divided into 24 hours, numbered from 0 to 24.	*'The time is 1245 on a 24-**hour clock.**'*
AM	The abbreviation a.m. stands for the Latin ante meridiem, meaning before.	*'The time is 9.00**am**'.*

Calendar	A chart or series of pages showing the days, weeks, and months of a particular year, or giving particular seasonal information.	
Century	A period of 100 years.	*'WW1 ended just over a **century** ago'.*
Earliest	Happening or done before the usual or expected time.	*'What is the **earliest** that you can arrive at school?'*
Latest	Of most recent date.	*'The **latest** you can finish your lunch is 12.30pm.'*
PM	The abbreviation p.m. stand for the Latin post meridiem, meaning after midday.	*'The time is 9.00**pm**'.*
Roman numerals	Roman numerals are a system of symbols used to represent numbers that were developed and used by the Romans. They do not use a place value system.	*'The number twelve on this clock is represented by the **Roman numerals** XII, which is 10 + 1 + 1.'* 
Money		
Pound (£)	A metric unit measure of money that is equal to one hundred pence.	*'I have 1 **pound** coin which is worth the same as 100 hundred pennies.'*
2D Shape		
Irregular	In geometry, irregular is a term used to describe shapes that are not regular (see below).	The sides and the angles of this pentagon are not all equal so the pentagon is **irregular**.
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 **regular** 2-D shape because all four angles are right angles and all four sides are the same length. A cube is a **regular** 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.	
Square based/ triangular based pyramid	A pyramid is a 3-D shape with a 2D shape (which gives the pyramid its name) as a base and triangular faces that taper to a point called a vertex or apex.	
Position and Direction		
Acute angle	An angle that is smaller than a right angle.	
Compass point	The directions on the magnetic compass. The 4 main points are North, South, East and West.	
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.	

Horizontal	A line that runs right and left across the page.	
North, south, east, west	Cardinal directions.	*'The boy moves four squares **north** and three squares **west**.'*
Obtuse angle	An angle that is greater than a right angle but less than 180 degrees.	
Right angle	An angle that is exactly 90 degrees, corresponding to a quarter turn.	
Vertical	A line that runs top to bottom down the page.	
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-**axis** on this bar graph shows you how many pupils preferred each colour.'*
Bar graph/ Bar chart	A representation of data in which the frequencies are represented by the height or length of the bars.	*'This **bar graph** shows us the preferred colours of the pupils in our Year 3 class. '*
Carroll diagram	A way of sorting objects, numbers and shapes by their traits.	
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**.'*
Pictogram	A representation of data using columns of pictures to show the numbers involved.	

Venn diagram	An illustration that uses circles to show relationships among things or finite groups of things.