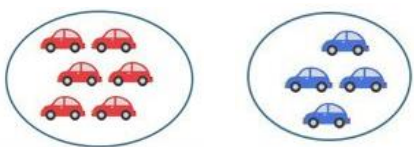
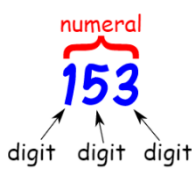
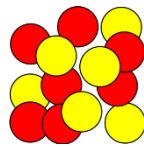


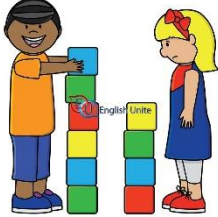
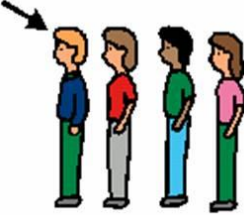
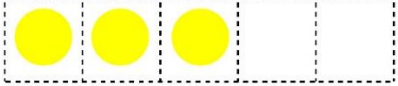
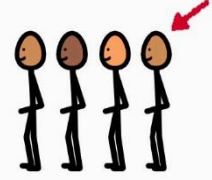

Mathematics vocabulary list EYFS


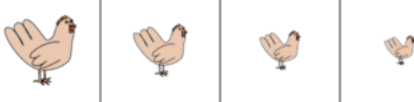


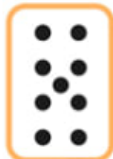
Maths is its own language. Sometimes that language looks like written word and sometimes it looks like symbols, but it is a language and it must be learned for math fluency and competency. If your child does not have a good understanding of key mathematical vocabulary, it can hinder them in making good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


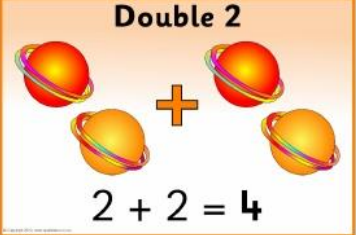


At Grace Mary, we explicitly teach maths vocabulary, giving it a context and allowing children to apply it in a variety of problems.

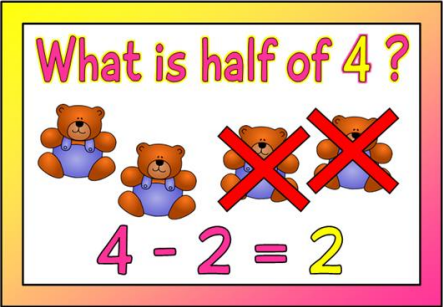
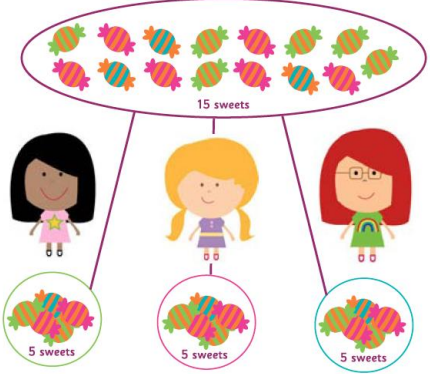
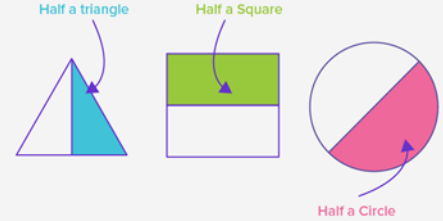
Listed below are the key mathematical terms your child will learn this year. This is the minimum we expect children to learn; however, we know children are curious and will undoubtedly want to learn more and we encourage this.


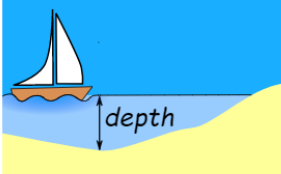
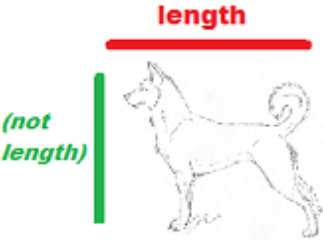
<u>Vocabulary</u>	<u>Definition</u>	<u>Example</u>
<i>Number and Place Value</i>		
Before	In front of or prior to.	'The number 3 comes before 5 on the number track'.
Between	A preposition that indicates location of an object with reference to two other objects, to the left of the first and the right of the second.	'4 is between 3 and 5 on our number track'.
Compare	Look for similarities and/or differences between at least two objects or sets.	'Let me compare these two sets – there are more red cars than blue cars.'
		
Count	Assigning one number name to each of a set of objects to determine how many there are.	'I counted the children in the group – there are four so we will need four pencils.'
Digit	A digit is a single symbol used to make numerals.	
Estimate	To find a value that is close enough to the right answer, usually with some thought or calculation involved.	'Can you estimate how many counters are below?'
		




Fewer	A lesser amount – used when counting discrete objects, i.e. countable objects such as, pens, teddies, counters, etc.	<p>'The girl has fewer blocks than the boy'.</p> 
First	Before anything else.	<p>'Fred is the first person in line'.</p> 
First, second, third...	'First, second, third, fourth, fifth, sixth, seventh, eighth, ninth, tenth'.	
Greater	When a quantity or number is bigger or larger than the second or rest quantities or numbers.	<p>'10 is greater than 8'.</p>
How many?	What number.	<p>'How many counters are there on the 5 frame?'</p> 
Is the same as...	Is equal to	<p>'4 is the same as 3 + 1. It is also the same as 2 + 2'</p>
Largest, greatest	The most in a set.	<p>'The greatest number in the following set, 6, 3, 9 is 9'.</p>
Last	Comes after all others in time or order.	<p>'Rory is the last person in the line'.</p> 
Less	A smaller amount or not as much.	<p>'I have 9p and you have 3p. You have less money than me'.</p>
Next	Comes immediately after the present one in order.	<p>'The next shape in my pattern is a square'.</p> 


Number	A count or measurement.	
One, two, three...to twenty	'One, two, three, four, five, six, seven, eight, nine, ten, eleven, twelve, thirteen, fourteen, fifteen, sixteen, seventeen, eighteen, nineteen, twenty.'	
Ones Tens	<i>'Numbers, such as 12, have two digits. Each digit is a different place value. The left digit is the tens' place. It tells you that there is one ten. The last or right digit is the ones' place which is 2 in this example.'</i>	
Order	Describes the placement of items according to given criteria or in a pattern. As a verb, to place items according to given criteria or in a pattern.	<i>'I have ordered the chickens from biggest to smallest.'</i> 
Pair	A set of two things used together.	<i>'Socks come in a pair – one for each foot.'</i> 
Pattern	A systematic arrangement of numbers, shapes or other elements according to a rule.	<i>'The pattern is red, blue, red, blue, red blue.'</i> 
Subitise	Instantly recognising the number of objects in a small group, without counting.	<i>'There are 9 dots here. I worked this out without counting. I subitised'.</i> 
Zero	The number before one. It is neither positive nor negative.	<i>'Zero comes before one on the number track'.</i>

Addition and subtraction		
Add	Carry out the process of addition.	'I can add two numbers together to find a total. $1 + 2 = 3$ '
Addition	The operation to combine at least two numbers or quantities to form a further number or quantity, the sum or total. Addition is the inverse operation to subtraction.	'eight plus three is equal to eleven. This is an addition question.' Addition: $8 + 3 = 11$
Altogether	In total.	'That will be £2 altogether please.'
Commutative	Either of two laws relating to number operations of addition and multiplication, stated symbolically: $a + b = b + a$ and $ab = ba$.	'6 + 3 equals the same as 3 + 6. This is the commutative law .' 
Double	To multiply by two or add a value to itself.	'Four is double two.' 
Less	A smaller amount or not as much.	'I have two footballs. You have 10 footballs. I have less .' 
More	A greater amount.	'I have twenty apples and you have five. I have more .' 
Sum	The result of one or more additions.	'The sum of five and three is eight.'
Take away	Used in the reduction structure of subtraction. To remove a number of items from a set.	'He ate three of the sweets so we need to take away three counters.'


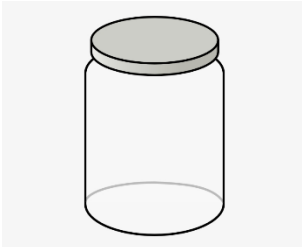

Total	The sum found by adding.	'There are a total of five people at this table.'
Multiplication and division		
Doubling	To multiply by two or add a value to itself.	'Ten is double five.'
Halving	One of two equal parts of a shape, quantity or object.	
Number patterns	A systematic arrangement of numbers, shapes or other elements according to a rule.	'The number pattern is 2, 4, 6, 8, 10.'
Sharing	To distribute fairly between a given number of recipients. This is one model for division.	<p>'I will share the crayons equally between the people at the table.'</p> 
Fractions		
Half	Either of two equal or corresponding parts into which something is or can be divided.	
Parts of a whole	A ratio or a fraction that represents a relationship between a part and its whole.	'A cake has been split into two parts . One part has been eaten.'

Measurement		
Compare	Look for similarities and/or differences between at least two objects or sets.	'I can compare these two sets – this set has more.'
Guess	An estimate or conclusion	'My guess is about 11'
Measure	To find the size of something in a given unit.	'How might we measure how much sand there is in the sand tray?' 
Size	An element's overall dimensions or magnitude.	'The size of my shoe is smaller than my teacher's.'
Length		
Depth	The distance between the nearest end and farthest end of an object.	'Can you measure the depth of this box?' 
Height	The vertical distance from the top to the base of the object.	'The height of this object is 12 cubes.'
Length	A linear measurement.	'The length of my snake is shorter than yours.'
		




Long	An adjective used to describe length.	'I have a long piece of string.'
Short	An adjective used to describe length.	'This bed is too short .'
		
Tall	Measuring a specific distance from top to bottom.	'The children are not as tall as the teacher.'
		
Width	The measurement of the distance of a side of an object.	'The width of this table is...'
Weight		
Balances	A measuring tool used to weigh objects. It has two dishes hanging on a bar. Both dishes will be level when the contents weigh the same. Also, as a verb, indicates equivalence and equality.	'The objects in the balance are unequal in weight because the dish on the right side is lower down than the dish on the left side. The two objects balance which means they have the same mass.'
Heavy	Having a weight that is greater than that of another object.	'That box is heavy .'
		

Light	Having a weight that is less than that of another object.	'The banana in the monkey's hand is light .'
		light 
Scales	An instrument for weighing.	'Can you use the scales to weigh the cubes?'
Weigh	Find out how heavy something is.	'I have weighed the Lego model'
Weight	The force exerted on an object by gravity.	'The weight of this book is heavier than the pencil.'

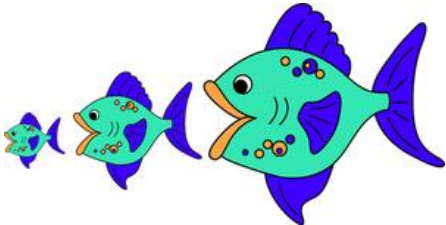

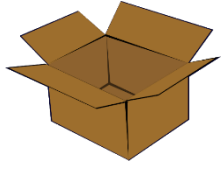



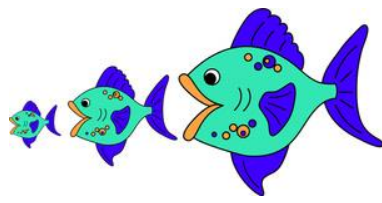
Capacity and volume


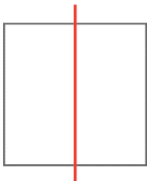
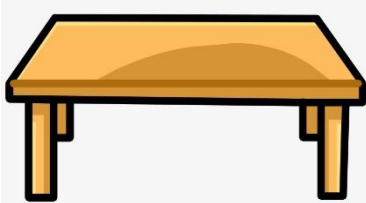





Container	An object for holding or transporting something.	'What container will hold the most water?'
		
Empty	Containing nothing. Most commonly used in the context of measures	'There is no more water left in the jug – it is empty .'
		
Full	Contains/holds as much or as many as possible; has no empty space.	'The juice carton is not full because I drank some.'
		





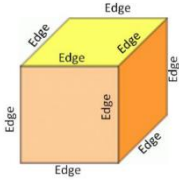
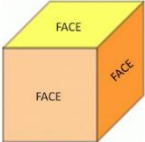
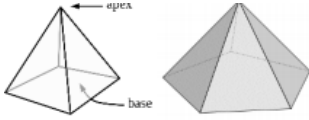
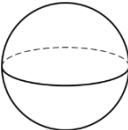
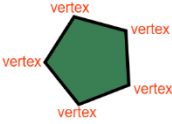
<i>Time</i>		
Afternoon	The time from noon or lunchtime to evening.	'We are going to the forest this afternoon. '
Days of the week, Monday, Tuesday ...	'Monday, Tuesday, Wednesday, Thursday, Friday, Saturday, Sunday.'	
Early	Near the beginning of a particular time or period.	'You have arrived early today.'
Evening	The period of time at the end of the day, usually from about 6 p.m. to bedtime.	'You go to bed in the evening. '
First	Comes before all others in time or order.	'The first thing we are going to do today is to wash our hands.'
Hour	A period of time equivalent to 60 minutes.	'We are having lunch in 1 hour. '
Last	Comes after all others in time or order.	'The last thing we are going to do today is read a story.'
Late	Doing something or taking place after the expected, proper, or usual time.	'The teacher has arrived later than expected.'
Morning	The period of time between midnight and noon.	'Good morning everyone.'
Night	The period from sunset to sunrise in each twenty-four hours.	'You can normally see the moon in the night. '
O'clock	'The time now is 1 o'clock.'	
Soon	In or after a short time.	'We are doing PE soon. '
Time	Related to duration. Measured in seconds, minutes, hours, days, weeks, months, years etc.	'After lunch it will be time for P.E.'
Today	The present day.	'The theatre are coming today. '
Tomorrow	The next day.	' Tomorrow , the weather will be snowy.'
Week	A period of seven days.	'Next week , we will be learning about farm animals.'
Yesterday	The previous day.	'Do you remember what we did yesterday? '

<u>Money</u>		
Buy	Obtain in exchange for payment	'How much is that item to buy ?'
Coin	A flat disc or piece of metal with an official stamp, used as money	'I have 5 coins here. I wonder how much I can buy from the shop...?'
Money	Any object that is generally accepted as payment for goods and services.	'That is a lot of money !' 
Pay	Give (someone) money that is due for work done, goods received.	'How much have I got to pay you for that?'
Penny/pence	A small sum of money.	'That will be 3 pence please'. 
Pound	Equal to 100 pence.	'The cake will be one pound please'. 
Price	The amount an item costs.	'What is the price of that please?'
Sell	Give or hand over (something) in exchange for money.	'I am not going to sell you this today'.
Spend	Give (money) to pay for goods, services	'How much money do you have to spend ?'

Properties of shape

Bigger, Larger	Of considerable size.	'Which of these fish is the biggest ?' 
Curved	A non-plane surface of a 3-D shape. Both cones and cylinders have curved surfaces.	'This line is curved .' 
Flat	A level surface.	'The table has a flat rectangular surface.'
Hollow	Having a hole or empty space inside.	'This box is hollow .' 
Pattern	A systematic arrangement of numbers, shapes or other elements according to a rule.	'The pattern below is square, triangle, square, triangle.' 
Repeating pattern	A design for decorating a surface composed of a number of elements (motifs) arranged in a regular or formal manner.	'Circle, rectangle, circle, rectangle...this is a repeating pattern of shapes'.
Round	A circular piece of something.	'This circle is round .' 
Shape	A geometric figure such as a square, triangle, or rectangle.	'Which of these shapes has four sides?' 
Size	An element's overall dimensions or magnitude.	'The size of my shoe is smaller than my teacher's.'
Smaller	Of a size that is less than normal or usual.	'Which of these fish is the smallest ?' 

Solid	Having three dimensions.	'This cube is a solid shape.' 
Sort	Arrange systematically in groups.	'How could we sort these shapes?'
Straight	A line or movement uniform in direction, without bends or curves.	'The edges of the table are straight .'
Symmetrical	A balanced and a proportionate similarity which is found in two halves of an object, that is, one-half is the mirror image of the other half.	'How can we see if this square is symmetrical ? Let's fold it'. 
2d shape		
Corner	A point where two or more lines meet. The correct mathematical term is vertex (vertices).	'The table has four corners (vertices).' 
Circle	The name of a 2-D shape. A circle has a curved side.	
Rectangle	A quadrilateral with four right angles.	
Side	A straight line that forms part of the boundary of a shape.	'This shape has four straight sides .' 
Square	A quadrilateral with four equal length sides and four right angles.	
Triangle	A polygon with three sides.	

3d shape		
Cone	A 3-D shape with one circular plane face, which tapers to an apex.	
Cube	A 3-D shape with six identical square faces.	
Cuboid	A 3-D shape with six rectangular faces.	
Cylinder	A 3-D shape with two circular faces joined by a curved surface.	
Edge	A line segment joining two vertices of a plane figure (2-D shape) and the intersection of two plane faces (in a 3-D shape).	'A triangle has three edges and a cube has 12 edges '. 
Face	One of the plane surfaces of a solid shape.	'A cube has six faces '. 
Pyramid	A 3-D shape with a polygonal base and otherwise triangular faces, which form edges with the base, and which meet at an apex.	
Sphere	A 3-D shape with a continuous surface, which is at all points equidistant from its centre. It has an infinite number of flat faces and straight edges.	'A bowling ball is a sphere '. 
Vertex, vertices	The point at which two or more lines intersect.	'This shape has five vertices '. 

Position and direction

Above

'The ball is **above** the box'.



Across

'Walk **across** the road'.



Along

'The hare ran **alongside** the tortoise'.



Apart

'Move **apart** from each other'



Around




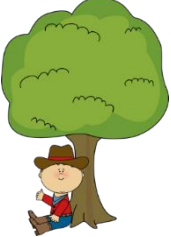

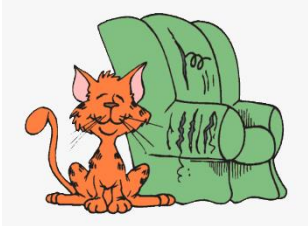
'The plane flew **around** the world'.

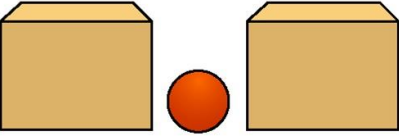










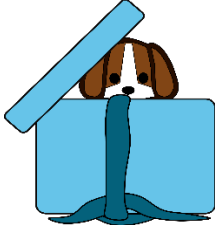


Away from



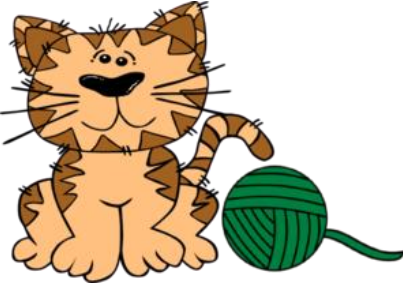
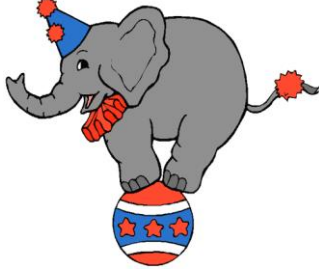
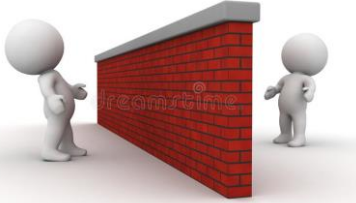
'If you see a snake, run **away from** it'.



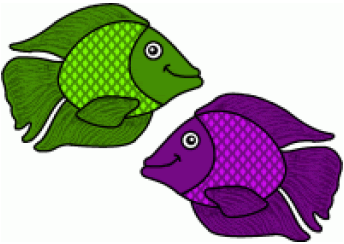









Back	<p><i>'Please come in through the back of the house'.</i></p> 
Backwards	<p><i>'Move backwards until you reach the wall'.</i></p> 
Behind	<p><i>'The cat was behind the box'.</i></p> 
Below	<p><i>'Below the tree, sat a little boy'.</i></p> 
Bend	<p><i>'Bend over and touch your toes'.</i></p> 
Beside	<p><i>'The cat sat beside the chair'.</i></p> 





<p>Between</p>	<p>'The red ball is between the two cardboard boxes'.</p> 
<p>Bottom</p>	<p>'The little girl waved from the bottom of the classroom'.</p> 
<p>Close</p>	<p>'The children ran to the playground close together'.</p> 
<p>Corner</p>	<p>'Around the corner is the library'</p> 
<p>Direction</p>	<p>'Which direction do you think the postman needs to take next?'</p>
<p>Down</p>	<p>'The girl slid down the slide'.</p> 
<p>Far</p>	<p>'Birmingham is quite far away from our school.'</p>
<p>Forwards</p>	<p>'The girl walked forward through the corridor'.</p> 

From	<p>'The man moved the boxes from the van to the school.'</p> 	
Front	<p>'The teacher was at the front of the class'.</p> 	
Half turn	<p>A 180 degree rotation, i.e. $\frac{1}{2}$ of a 360 degree or 'full' turn.</p>	
In	<p>'The dog hid in the box'.</p> 	
Inside	<p>'The two boys slept inside their tents'.</p> 	
Left	<p>'The green car is to the left of the right car'.</p> 	

Middle	<p>'The archer hit the middle of the target'.</p>  <p>A target with a wooden frame on three legs, mounted on a green circular base. The target has concentric rings of blue, red, and yellow, with a white bullseye in the center. An arrow is shown hitting the bullseye.</p>
Movement	<p>'Let's stretch our arms really high in the air. Let's make big movements'.</p>
Near	<p>'The bear was near the tree'.</p>  <p>A cartoon bear standing on a patch of green grass next to a brown tree trunk.</p>
Next to	<p>'The cat sat next to the ball of string'.</p>  <p>A cartoon orange and white striped cat sitting on the ground next to a ball of green string.</p>
On	<p>'The elephant balanced carefully on the ball'.</p>  <p>A cartoon elephant balancing on a ball with red, white, and blue stripes and stars. The elephant is wearing a blue party hat with red pom-poms and a red and white striped scarf.</p>
Opposite	<p>'The man was on the opposite side of the wall'.</p>  <p>Two white 3D figures standing on opposite sides of a red brick wall.</p>

<p>Outside</p>	<p>'The children played skipping outside'.</p> 	
<p>Over</p>	<p>'The horse jumped over the fence'.</p> 	
<p>Position</p>	<p>Location, expressed either descriptively using positional prepositions, or specified by coordinates.</p>	<p>'The book is on the table. The clock is hanging above the board. This is their position'.</p>
<p>Right</p>	<p>'The purple fish is to the right of the green fish'.</p> 	
<p>Roll</p>	<p>'Roll the ball along the floor'.</p> 	
<p>Sideways</p>	<p>'Tilt your body sideways. Can you still balance?'</p> 	

<p>Slide</p>	<p><i>'In the dance, we need to slide to the right'.</i></p> 
<p>Stretch</p>	<p><i>'Before any exercise, we must stretch our muscles'.</i></p> 
<p>Through</p>	<p><i>'Chuck the ball through the hoop and into the net'.</i></p> 
<p>Top</p>	<p><i>'The explorer climbed to the top of the mountain'.</i></p> 
<p>Towards</p>	<p><i>'The boy ran towards his mum at the end of the day'.</i></p> 

Turn	<p><i>'The two girls were dancing and turned on the spot.'</i></p> 	
Under	<p><i>'The boy hid under his blanket and read his book.'</i></p> 	
Up	<p><i>'You can climb up the tree as long as an adult helps you.'</i></p> 	
Whole turn	360 degrees turn.	 <p>whole turn</p>
Statistics		
Count	Assigning one number name to each of a set of objects to determine how many there are.	<i>'I counted the children in the group – there are four so we will need four pencils.'</i>
Group	To make equal size groups.	<i>'I will group the crayons equally so that each person gets two.'</i>
Set	A defined group of objects, numbers or other elements.	<i>'I have placed all the purple counters in this set because they are all the same colour'.</i>
Sort	To organise a set of elements into specified categories.	<i>'I will sort these objects based on their size.'</i>