# Mathematical Vocabulary 

EYFS

## 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 a 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 Chapel End, 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 children in EYFS will learn.
This is the minimum we expect children to learn; however, we know children are curious and will undoubtedly want to learnmore and we encourage this.

| Vocabulary | Definition | Example |
| :---: | :---: | :---: |
| Number and Place Value |  |  |
| 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. | 'The girl has fewer blocks than the boy'. |
| :---: | :---: | :---: |
| First | Before anything else. | 'Fred is the first person in line'. |
| 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. | '10 is greater than 8'. |
| How many? | What number. | 'How many counters are there on the 5 frame?' |
| Is the same as... | Is equal to | ' 4 is the same as $3+1$. It is also the same as $2+2^{\prime}$ |
| Largest, greatest | The most in a set. | 'The greatest number in the following set, 6, 3, 9 is 9'. |
| Last | Comes after all others in time or order. | 'Rory is the last person in the line'. |
| Less | A smaller amount or not as much. | I have 9p and you have 3p. You have less money than me'. |
| Next | Comes immediately after the present one in order. | 'The next shape in my pattern is a square'. $\square$ $\square$ |


| Number | A count or measurement. |  |
| :---: | :---: | :---: |
| One, two, three...to twenty | 'One, two, three, four, five, six, se thirteen, fourteen, fifteen, sixteen twenty.' | en, eight, nine, ten, eleven, twelve, seventeen, eighteen, nineteen, |
| Ones Tens | 'Numbers, such as 12 , have two digits The left digit is the tens' place. It t right digit is the ones' place which | its. Each digit is a different place value. Ils you that there is one ten. The last or is 2 in this example'. |
| 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 have ordered the chickens from biggest to smallest.' |
| Pair | A set of two things used together. | 'Socks come in a pair - one for each foot'. |
| Pattern | A systematic arrangement of numbers, shapes or other elements according to a rule. | 'The pattern is red, blue, red, blue, red blue'. |
| Subitise | Instantly recognising the number of objects in a small group, without counting. | 'There are 9 dots here. I worked this out without counting. I subitised'. |
| Zero | The number before one. It is neither positive nor negative. | 'Zero comes before one on the number track'. |


| Addition and subtraction |  |  |
| :---: | :---: | :---: |
| Add | Carry out the process of addition. | 'I can add two numbers together to find a total. $1+2=3^{\prime \prime}$ |
| 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.' <br> Addition: $8+3=11$ |
| Altogether | In total. | 'That will be $£ 2$ altogether please.' |
| 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. | What is half of $\langle ?$ <br> むe $4-2=2$ |
| 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. | 'I will share the crayons equally between the people at the table.' |
| 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 that 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.' |
| :---: | :---: | :---: |
| 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.' |


| Time |  |  |
| :---: | :---: | :---: |
| 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?' |


| Money |  |  |
| :---: | :---: | :---: |
| 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. <br> Both cones and cylinders have curved surfaces. | 'This line is curved.' Cle |
| 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?' $\square$ |
| 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, onehalf 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.' $\square$ |
| 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 <br> plane face, which tapers to an <br> apex. |  |  |  |  |  |
| A 3-D shape with six identical |  |  |  |  |  |  |
| square faces. |  |  |  |  |  |  |$\quad$| A 3-D shape with six rectangular |
| :--- |
| faces. |

Above Position and direction
Back

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


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

Middle

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

Slide

| Turn | 'The two girls were dancing and turned on the spot'. |
| :--- | :--- | :--- | :--- |
| Under | 'The boy hid under his blanket and read his book'. |
| Sort |  |

