St. Mary's

Church of England Primary School
Kirkby Lonsdale

## St Mary's CE School

## Mathematical

## Vocabulary Year 1

## Mathematics vocabulary list Year 1

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 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.

| Vocabulary | Definition | Example |  |  |
| :---: | :---: | :---: | :---: | :---: |
| Number and Place Value |  |  |  |  |
| Above | Something that is over another number. | ' 5 is above 3 when we count'. |  |  |
| Backwards | Back towards the starting point. | ' $7,6,5,4,3$... this is counting backwards'. |  |  |
| Below | Something that is lower than something else. | ' 3 is below 5 when we are counting'. |  |  |
| Equal to | Being the same in quantity | ' $2+1$ is equal to 3 6 is equal to $6^{\prime}$ |  |  |
| Equivalent to | Equal in value, amount | ' $6+6$ is equivalent to $2 \times 6$ ' |  |  |
| Forwards | To advance something | ' $2,4,6,8,10$... We are counting forwards in jumps of 2'. |  |  |
| Half-way between | 1 at or to half the distance; at or to the middle. | 'Half-way between 1 and 3 is 2' |  |  |
| Known fact | A number fact which has been committed to memory (or very fast recall) and can be applied fluently to various calculation strategies. | 'When I use the 'Make ten' strategy to add, I use known facts to partition the number I'm adding.' |  |  |
| Least | Smallest in amount | 'C has the least amount of stars in'. |  |  |
|  |  |  | ${ }_{\star}^{\star}$ | $\begin{gathered} \star \star \star \\ \star \star \star \star \end{gathered}$ |
| Many | A number representing some quantity. | 'How many have you got in total? |  |  |


| Most | Largest in amount. | 'D has the most amount of stars in'. |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | $\begin{aligned} & \star \star \\ & \star \star \end{aligned}$ | $\begin{gathered} \star \star \\ \star \star \star \end{gathered}$ | ${ }_{\star}^{\star}$ | $\begin{gathered} \star \star \star \\ \star \star \star \star \\ \star \star \end{gathered}$ |
| Multiple of | A number that may be divided by another a certain number of times without a remainder. | '10 is a multiple of 2.$2,4,6,8,10^{\prime}$ |  |  |  |
| Numeral | A symbol or name that stands for a number. |  |  | $3$ |  |
| Numbers 20-100 | 'Twenty-one, twenty-two ... one hundred' |  |  |  |  |
| Rule | A consistent pattern which allows generalisation. Awareness of a rule allows a pupil to continue a sequence or generate a related sequence. | $3,5,7,9,11 \ldots$ <br> The rule is that each number is two greater than the previous number. Therefore, the next number in this sequence will be 13.' |  |  |  |
| Addition and subtraction |  |  |  |  |  |
| Difference | The numerical difference between two numbers or sets of objects. It is found by comparing the quantity of one set of objects with another. | difference $\downarrow$$\downarrow$$2=4$ |  |  |  |
| Equals | Be the same as in number or amount. | $\begin{aligned} & \prime 5+5=10 ' \\ & \prime 10=5+5 \text { ' } \end{aligned}$ |  |  |  |
| Half | Either of two equal or corresponding parts into which something is or can be divided. | $' 4+4=8$. So half of 8 is 4 because $8-$ $4=4^{\prime}$. |  |  |  |


| Missing number | A part of an equation that is missing. | 'Find the missing number below:' $2+\square+7=14$ |
| :---: | :---: | :---: |
| Near | Close to | '9 is close to 10 ' |
| Number bonds/pairs | A pair of numbers with a given total. | 'Number bonds to 10'. |
| Repeated addition | A structure of multiplication where equal parts are added to make a whole. | 'I can show $4 \times 5$ as repeated addition: $4+4+4+4$ + 4.' |
| Repeated subtraction | A structure of division, where equal parts are subtracted and the number of equal parts summed to calculate a quotient. | 'I can use repeated subtraction to calculate 20 divided by four: 20-4-4-4-4-4.' |
| Subtract | Carry out the process of subtraction. | 'Nine subtract three is equal to six.' |
| Subtraction | The inverse operation to addition. | 'We are taking some away so it is a subtraction question.' |
| Subtrahend | A quantity or number to be subtracted from another. |  |


| Multiplication and division |  |  |
| :---: | :---: | :---: |
| Array | An arrangement of counters or numbers, in columns and rows, used to represent multiplication and division. | 'This array shows $3 \times 4,4 \times 3,12 \div 4$ and $12 \div 3$ '. |
| Divide | To share or group into equal parts. | I can divide 12 by three using grouping or sharing'. |
| Dividend | A number to be divided by another number. | $6 \div 3=2$ |
| Division | Distributing a group of things into equal parts. | 'Answer the division questions below: <br> There are 12 chocolates, and 3 friends want to share them, how do they divide the chocolates?' |
| Divisor | A divisor is a number that divides another number either completely or with a remainder. |  |
| Grouping | Dividing things into equal groups or sets. This is one model for division. | Complete the number $12 \div 4=3$ |


| Multiplication | Gives the result of combining groups of equal sizes. | $2 \times 5=10$ $2+2+2+2+2$ |
| :---: | :---: | :---: |
| Multiple | The product result of one number multiplied by another number. | ' 20 is a multiple of 10 and $2.2 \times 10=$ 20'. |
| Multiplicand | A quantity which is to be multiplied by another (the multiplier). | Parts of Multiplication $\begin{aligned} 15 & \text { multiplicand } \\ \times \quad 2 & \text { multiplier } \\ \hline 30 & \text { product } \end{aligned}$ |
| Multiplier | A quantity that multiplies the multiplicand. | Parts of Multiplication $\begin{array}{r} 15 \\ \times \quad 2 \\ \times 3 \text { multiplicand } \\ \hline 30 \end{array} \begin{aligned} & \text { product } \end{aligned}$ |
| Multiply | Add equal groups. | 'Multiply 5 by 2'. |
| Product | The result of one or more multiplications | Parts of Multiplication $\begin{aligned} 15 & \text { multiplicand } \\ \times \quad 2 & \text { multiplier } \\ \hline 30 & \text { product } \end{aligned}$ |
| Quotient | A result obtained by dividing one quantity by another. | Dividend Divisor <br> Quotient $6 \div 3=2$ |
| Sharing | To distribute fairly between a given number of recipients. This is one model for division. | Draw the sharing diagram $\because \because \because=$ <br> Complete the number sentence $12 \div 4=3$ |


| Fractions |  |  |
| :---: | :---: | :---: |
| Equal grouping | Groups that have the same number of equivalent items. | 'Each bucket has the same number of equal groups' |
| Equal part | Having the same portion, division, piece, or segment of a whole. | Whole part <br> Whole part <br> Two equal parts <br> Two equal parts |
| Equal sharing | Dividing the whole or a group of objects is into equal parts. | 'The pizzas below have been shared equally'. |
| Fraction | How many parts of a whole: <br> - the top number (the numerator) says how many parts we have. <br> - the bottom number (the denominator) says how many equal parts the whole is divided into. | 'I have shared my sweets into two equal parts. Everyone will get a fraction of the whole quantity of sweets. One group is a half of the whole.' |
| One of two equal parts | When something is divided into two equal sections, half is one of the two parts. | one of two equal parts |
| Quarter | One of four equal parts of a whole, quantity or object. | 'I have shared the eight conkers into four equal groups - I have two conkers, which is one quarter of the whole.' |


| Length |  |  |
| :---: | :---: | :---: |
| Metre | A standard unit of measure, equal to 100 centimetres. | 'I estimate that the table is about a metre tall.' |
| Metre stick | A measuring stick one meter long that is marked off in centimeters and usually millimeters. | 'About how many metres is the table in length? I am going to use my metre stick to measure it' |
| Ruler | A tool or device used to measure length and draw straight lines. | 'The length of this line is 10 cm . I measured with a ruler'. |
| Weight |  |  |
| Kilogram | A standard unit of mass, equal to 1000 grams. | 'The book has a mass of two kilograms'. |
| Capacity and volume |  |  |
| Capacity | The maximum amount that something can contain. | 'The capacity of the jug is 1 litre'. |
| Less than | One value or amount is lesser than the other. | 'The amount of water in this container is less than the amount of water in this container.' |
| Litre | A standard unit of volume, equal to 1000 millilitres. | 'The capacity of the jug is about half a litre.' |
| More than | One value or amount is greater than the other. | 'The amount of water in this container is more than the amount of water in this container.' |
| Volume | A quantity or amount of any substance and the 3-D space it fills. | 'The bottle contains a volume of one litre but its capacity is two litres. The bottle is half full.' |


| Time |  |  |
| :---: | :---: | :---: |
| Always | At all times. | 'Christmas is always on December $25^{\text {th }}$ 。 |
| Analogue clock | A clock with a face and hands. |  |
| Date | The day of the month or year as specified by a number. | $\begin{aligned} & \text { 'Monday 1st September } 2021 \\ & 01.09 .21 \text { ' } \end{aligned}$ |
| Earlier | Before the usual or expected time. | 'We have finished our lesson a bit earlier today'. |
| Half past |  |  |
| Hour hand | Hours an <br> This is the hour hand <br> It is the shortest hand on the clock. | Minutes <br> This is the minute hand. <br> It is longer than the hour hand |
| Later | A time or situation that is after the one that you have been talking about or after the present one. | 'It is not lunchtime yet. It is later'. |


| Midnight |  |  |
| :--- | :--- | :--- | :--- | :--- | :--- |


| Quarter to |  |  |
| :---: | :---: | :---: |
| Seasons | 'Spring, summer, autumn, winter'. |  |
| Sometimes | 'Sometimes, it might snow in the winter'. |  |
| Twice | Two times; on two occasions | 'I completed that challenge once. I need to complete it twice'. |
| Usually | 'Usually we have our lunch at 12pm'. |  |
| Weekend | 'Saturday and Sunday is the weekend'. |  |
| Year | The period of 365 days (or 366 days in leap years) starting from the first of January, | 'Next year, you will be moving into year 2.' |
| Money |  |  |
| Change | Receiving money back after purchasing. | 'If I buy this teddy, how much change would I get?' |
| Cheap | Low in price, especially in relation to similar items or services. | 'These sweets are very cheap in the shop. In the other shop, they cost more'. |
| Costs less | Cheaper in one place than in another. | 'The doll costs less than the teddy bear'. |
| Costs more | More expensive in one place than in another. | 'The teddy bear costs more than the doll'. |


| Costs the same as | Equal in price. | 'The plant is shop A costs the same as the same plant in shop B.' |
| :---: | :---: | :---: |
| Dear | Very expensive. | 'It would cost a lot of money to go on holiday abroad. It would be very dear'. |
| Total | Comprising the whole number or amount. | 'The total cost is $£ 5$.' |
| 2d shape |  |  |
| Oblong | A quadrilateral with two pairs of parallel sides of equal length. |  |
| Point | A sharp point of a shape. | A sharp part of a shape is a point. <br> point <br> The pyramid is pointed. |
| 3d shape |  |  |
| Shape names <br> Cone <br> Cube <br> Cuboid <br> Pyramid <br> Triangular Prism <br> Sphere <br> Cylinder | Children are introduced to the names of shapes building on their knowledge from EYFS. |  |
| Position and direction |  |  |
| Anti-clockwise | Movement in the opposite direction to the motion of the hands of a clock. |  |
| Center | A center is a point that is the same distance from all the extremities of a figure. |  |
| Clockwise | Movement in the direction of the hands of a clock. | $\square$ |



