Mathematics vocabulary list Year 2

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.

| Vocabulary | <u>Definition</u> | <u>Example</u> |
|----------------|--|---|
| | Number and Place Vo | nlue |
| Calculate | To compute or work out mathematically. | 'Can you calculate the answer to 13 + 4?' |
| Column | A vertical arrangement of numbers or objects. | '24 has two tens – I will place them into the tens column '. Tens Ones |
| | | 2 :4 |
| Continue | To carry something on. | 'Can you continue this pattern? 15, 20, 25, 30, 35' |
| Efficient | Well-organised. Choosing an efficient computation strategy requires consideration of the numbers involved and will normally utilise 'known facts'. | 'I will use my number bonds knowledge to calculate 22 + 7 efficiently. I know that 2 + 7 is equal to 9, so the answer is 29. That's more efficient that counting on seven.' |
| > Greater than | The > symbol means "greater than". It shows that one number or value is larger than another number. | 'Ten is greater than three' 10 > 3' |
| Hundreds | The number equivalent to the product of ten and ten; ten more than ninety; a three-digit number. | HUNDRED TENS ONES |
| < Less than | The symbol < means that one number is smaller than the other number. | 'Thee is less than 10. 3 < 10' |

| One-, two- or three- | One-digit numbers are the | 'Can you give me a two-digit number |
|-----------------------|---|--|
| digit number | numbers 0-9; two-digit numbers | greater than 46?' |
| digit ildilibei | are the numbers 10 to 99; three- | greater than 40: |
| | digit numbers are the numbers | |
| | 100 to 999 | |
| | 100 to 333 | |
| Operation | A mathematical process. The | '4 + 2 = 6. The operation is addition.' |
| | four mathematical operations | |
| | are addition, subtraction, | |
| | multiplication and division. | |
| Place value | A system for writing numbers, in | 'In the number 52 written in base ten, |
| | which the value of a digit is | The digit five has a value of 50 and |
| | defined by its position within the | the digit two has a value of 2.' |
| Predict | number. A prediction is a reasonable guess | 'I predict the next number in the |
| Tredict | as to what will happen. | sequence will be 45. |
| | as to what will happen. | sequence win se is. |
| | | 30, 35, 40′ |
| Representation | A very general relationship that | o Tallies Numbers: |
| | expresses similarities (or | Pictures 10 Write it |
| | equivalences) between | ten |
| | mathematical objects or | Money Different Adding 5+5=10 |
| | structures. | @@@@ (Ways to Show) Subtracting: 20-10= 10 |
| | | (1) (1) (1) Number lines: |
| | | 10 5 |
| | | 10-Frame Dice: Fingers: M. M. |
| | | Fingas Color |
| Rule | Rule is the procedure that a | 'The rule in the sequence below is add |
| | count must follow. | 2. |
| | | |
| | | 31, 33, 35, 37, 39'. |
| Sequence | A list of numbers or objects in a | 'The sequence below starts at 3 and |
| | special order. | increases by 4 every time. |
| | | 3, 7, 11, 15'. |
| Twenty-first, twenty- | 'Twenty-first, twenty-secondnine | |
| second | | |
| Twenty-one, | 'Twenty-one, twenty-two, twenty | threeninety-nine, one-hundred'. |
| twentytwo | | |
| | | • |
| | Addition and subtract | ion |
| Facts | A fact family can be defined as a | ′34 + 13 = 47 |
| | group of math facts or equations | 13 + 34 = 47 |
| | created using the same set of | 47 – 34 = 13 |
| | numbers. | 47 – 13 = 34′ |
| Inverse operations | Opposite operations that | 'Addition and subtraction are inverse |
| | 'undo' each other. | operations.' |
| | | |

| Near double Regroup | When two numbers involved in an addition are close in value, such as 23 + 22. The numbers can be treated as exact doubles, followed by compensating. To rearrange groups in place | 'To calculate 23 + 22, I can use the near double strategy. I can double 22 and then add one more.' |
|----------------------|--|---|
| | value to carry out an operation. | 3 2 2 12 3 Z 3 Z 3 Z 2 15 2 17 2 17 2 17 |
| Renaming | Writing a number in an equivalent form, usually in terms of its place-value parts. | Tens Ones 28 15 43 |
| | Multiplication and divi | ision |
| Division fact | Division number sentences related to times tables knowledge. | '20 ÷ 5 = 4 is a division fact' . |
| Equal groups of | A group is an equal group if it has the same number of items as all of the other groups. | EQUAL GROUPS Each group has the same number of objects. There are two groups, and each group has four turtles. |
| Left over | When dividing in maths, the groups can be the same size. Sometimes there may be a leftover. | Left Over |

| Multiplication fact | The answer to a multiplication calculation. For example in 3 x 3 = 9, the multiplication fact is 9. | '10 x 7 = 70 is a multiplication fact'. |
|----------------------|--|--|
| Multiplication table | A list that shows the results of multiplying certain numbers by each other. | 2 x 0 = 0 2 x 1 = 2 2 x 2 = 4 2 x 3 = 6 2 x 4 = 8 2 x 5 = 10 2 x 6 = 12 2 x 7 = 14 2 x 8 = 16 2 x 9 = 18 2 x 10 = 20 2 x 11 = 22 2 x 12 = 24 |
| Times | An arithmetic operation that is the inverse of division. | 'Four times three equals twelve'. |
| | Fractions | |
| Denominator | The number written below the vinculum in a fraction. In a measure context, it indicates the number of equal parts into which the whole is divided. In a division context, it is the divisor. | = Numerator 2 = Denominator |
| Equivalence | The condition of being equal or equivalent in value, worth. | $\frac{2}{4} = \frac{1}{2}$ |
| Mixed number | A number consisting of an integer and a proper fraction. | $1\frac{3}{4}$ $1\frac{3}{4}$ |

| Non-unit fraction | A fraction with a numerator greater than one. | 'Two thirds is a non-unit fraction .' |
|------------------------------|--|--|
| Numerator | The number written above the vinculum in a fraction. In a measure context, it indicates the specified number of parts out of the whole. In a division context, it is the dividend. | = Numerator 2 = Denominator |
| One of three equal parts | When a shape is divided into three equal parts, each part is called a third. | One-third means one of three equal parts. |
| One third, two thirds | When a shape is divided into three equal parts, each part is called a third. Two of these parts are called two thirds. | $\frac{2}{3}$ |
| | | two-thirds |
| Two halves | Two equal parts of one whole thing. | two halves |
| Two quarters, three quarters | When a shape is divided into four equal parts, each part is called a quarter. Two of these parts are called two quarters. Three of these parts is called three quarters. | two-quarters three-quarters |
| Unit fraction | A fraction with a numerator of one. | '¼ is a unit fraction .' |

| A horizontal line that separates the numerator and the denominator in a fraction. | $\frac{1}{4}$ vinculum |
|---|---|
| Length | |
| A measure of length. It is about the width of a fingernail. | 'The length of the line is 20cm '. |
| There are 100 centimetres in a metre. | |
| The abbreviation is cm. | |
| At or by the greatest distance. | 'The child in the red jumper is furthest away from the tree.' |
| A length of tape or thin flexible | 'Which iten would be the best to |
| _ | measure this object- a ruler, metre stick or tape measure ?' |
| Tor measuring. | Stick of tupe measure: |
| Weight | |
| A metric unit of mass equal to | 'This apple weighs approximately 100 |
| one thousandth of a kilogram. | grams'. |
| Capacity and volum | e |
| One thousandth of a litre. | 'This small beaker holds about 60 millilitres of water'. |
| Temperature | |
| A set change in temperature measured against a given scale | 'The temperature at present is 16 degrees Celsius'. |
| Measure of hotness or coldness. | 'The temperature at present is 16 degrees Celsius'. |
| Time | |
| | |
| $ \begin{array}{cccccccccccccccccccccccccccccccccccc$ | |
| | the numerator and the denominator in a fraction. Length A measure of length. It is about the width of a fingernail. There are 100 centimetres in a metre. The abbreviation is cm. At or by the greatest distance. A length of tape or thin flexible metal, marked at graded intervals for measuring. Weight A metric unit of mass equal to one thousandth of a kilogram. Capacity and volum One thousandth of a litre. Temperature A set change in temperature measured against a given scale Measure of hotness or coldness. Time |

| 51 11 1 1 | | 1 |
|---------------|--|--|
| Digital clock | A clock that displays the time in numerical digits rather than by hands on a dial. | (B:00) |
| Fortnight | A period of two weeks. | 'There are 14 days in a fortnight' . |
| Seconds | A unit of time. | 'There are 60 seconds in a minute' |
| | 2d shape | |
| Hexagon | A polygon with six sides and six angles. | |
| Line symmetry | A shape is symmetrical when it fits exactly onto itself when folded in half. | This triangle has one line of symmetry. |
| Octagon | A polygon with eight sides and eight angles. | |
| Pentagon | A polygon with five sides and five angles. | |
| | 3d shape | |
| Surface | The outside part or uppermost layer of a 3d shape. | 2D Shapes on the Surface of 3D shapes Cabe A color has 6 square Josephare - based A color has 8 rectangular Jacob. Signature - based A color has 8 rectangular Jacob. Signature - based A color has 8 rectangular Jacob. Signature - based A color has 8 rectangular Jacob. Signature - based A color has 8 rectangular Jacob. Signature - based A color has 8 rectangular Jacob. Signature - based A color has 8 rectangular prison A seemple from has 2 stoogle floats. It has 3 rectangular parison A seemple floats. Signature - based A color has 1 sirving float Signature - based Signature - |

| | Position and direction | on |
|---------------|--|--|
| Right angle | An angle of 90°, as in a corner of a square | 90° |
| Straight line | A line that does not curve. | |
| | Statistics | |
| Frequency | The number of times something occurs within a data set. | '4 pupils have brown hair. The frequency of brown hair is 4.' Brown Blue Blonde IIII III I |
| Label | The horizontal label across the bottom and the vertical label along the side tells us what kinds of facts are listed in a graph. | Favourite Fruits 12 10 8 10 4 |
| Least common | The smallest amount or number. | 'No one caught the bus to school. It was the least common mode of transport'. |
| Least popular | The smallest amount or number. | 'No one chose green as their favourite colour. It was the least popular option'. |
| Most common | The biggest amount or number. | '20 children walked to school. It was the most common mode of transport'. |
| Most popular | The biggest amount or number. | '15 children chose red as their favuorite colour. It was the most popular option.' |
| Pictogram | A representation of data using pictures or symbols. | Countries people visited France |
| Represent | To present something in a certain way. | 'We are going to represent the data you collected in a pictogram'. |

| Tally A form of counting. Each tally is a vertical mark. After the fourth vertical mark, a fifth horizontal/diagonal mark is drawn to create a group of five. | 'The tally chart shows that blue was the most popular colour.' | |
|--|--|--|
| | horizontal/diagonal mark is | Yellow 4 Red 5 |
| | | Blue HT 1 6 |
| | | Green 1 Pink 4 |
| Title | The title of a graph tells you what the graph is about. | Zoo Data |
| | | 15 14 13 |
| | | 12 11 10 9 |
| | | 8 7 6 |
| | | 5 4 3 |
| | | |
| | | |