## Calculation POLICY

| Formally adopted by the <br> Governing Body of Sheringham Community Primary \& Nursery School |  |
| :--- | :--- |
| On | $1^{\text {st }}$ September 2021 |
| Chair of Governors |  |
| Head Teacher |  |
| Last updated | January 2024 |
| Review |  |

Be all that you can be...

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## Introduction

It is our belief that the children at Sheringham Primary School will gain a deep, long term conceptual understanding of calculation in every concept that is secure and adaptable before moving onto the next. As stated in the main maths policy using the CARES Curriculum children are to have experiences that will equip them with skills to be able to calculate efficiently and confidently throughout their lives and fully understand each interlinked concept.

## Intent

The main aims of this policy are in line with the new National curriculum 2014 and aim to ensure that all children:

- become fluent in the fundamentals of mathematics, through varied and frequent practice with increasingly complex problems over time, so that pupils develop conceptual understanding and the ability to recall and apply knowledge rapidly and accurately
- reason mathematically by following a line of enquiry, conjecturing relationships and generalisations, and developing an argument, justification or proof using mathematical language
- $\quad$ can solve problems by applying their mathematics to a variety of routine and non-routine problems with increasing sophistication, including breaking down problems into a series of simpler steps and persevering in seeking solutions.

Pupils should make connections across mathematical ideas to develop fluency, mathematical reasoning and competence in solving increasingly sophisticated problems. (NC 2014)

Children will be able to:

- have a conceptual understanding of methods rather than a set of memorised procedures.
| Version 2 | $3^{\text {rd }}$ January 2023
- use mathematical vocabulary correctly to communicate and share mathematical thinking.
- develop their relational understanding of new concepts, making connections through a CPA approach.
- demonstrate procedural and conceptual fluency in mental and written calculations from EYFS to KS2 and develop a depth of understanding using a mastery approach.
- Confidently apply the appropriate method to any given context, be it familiar or unfamiliar, in maths lessons and across the curriculum


## Representations

Pupils will have the opportunity to manipulate a wide variety of models and images and resources to choose the best representation for each calculation.

Representations are vitally important in developing conceptual understanding and supporting children's visualisation of the maths. Different concepts can be represented using the same resource/representation depending on the child's age and stage of mathematical development.

These will include Numicon, rekenreks, number lines, number fans, bead strings, counters, counting objects, cubes, Diennes, Cuisenaire rods, multilink, unifix, place value cards, 100 square, dice, arrow cards, digit cards, counting sticks, etc.


## The Number Line

"Developing a number line is one of the strongest and most useful mental images in helping us to undertake mental calculations." Koshy 1999

In the children's mathematical development, the school will encourage the use of the number line as a model and image to support mathematical understanding.

Mental images of number lines support place value and the development of efficient calculation methods, which consequently underpin the use of written calculation methods as stipulated by the NC documentation.

The number line is beneficial in its use as it will:

- Develops a child's mental imagery and spatial understanding of number
- Strongly develops sense/relationships of numbers
- Provides a progressive and consistent method of recording calculations
- Underpins children's acquisition of basic facts
- Allows a child to demonstrate a range of calculation strategies
- Enables more efficient methods to be developed


## The Four Operations

All four calculations possess very strong links to each other. The basic ideas of addition and subtraction can be used to describe, estimate and calculate the more complex concepts of multiplication and division.


For these reasons it is vitally important that addition and subtraction and multiplication and division are taught alongside each other for the children to make links.

It is vital that all children have a conceptual and deep understanding of the mathematics and that no 'tricks' are taught as short cuts which can cause misconceptions to be embedded. For example, adding a zero when multiplying by ten does not support an understanding of place value.

## Vocabulary

Communication of mathematical thinking is a vital skill and the children at SCPS are encouraged to verbalise their thinking with correct vocabulary using reasoning skills and sentence stems. For example, the term 'sum' will only be used to refer to an addition calculation

## Bar Model

Bar Method - Problem Solving Approaches
The Bar method is a visual representation of a word problem. It allows the children to visualise the structure of the problem making it easier to see which parts of the problem are known and which are unknown. It is not a calculation tool. Once the problem is visualised then the appropriate number operations can be selected to solve it.

This also follows the Concrete - Pictorial - Abstract (CPA) model of conceptual understanding.

## Part-whole model for addition and subtraction.

There are 5 apples and 6 oranges. How many pieces of fruit altogether?


The bar method can also be used to help solve problems relating to multiplication, division, fractions, ratio and proportion. Through representing each part with bars, children can find the parts unknown and solve the problem. In each case, children should start with the
concrete model before moving onto a pictorial representation and then finally by using an abstract representation in the form of a bar, or bars.

## Progression of the calculations

The progression of the calculations in this policy builds up in small steps. They are not year group dependent but dependent on the stage of learning of the individual or group of learners.

Addition \& Subtraction

| Skills | Representations showing Concrete/Pictorial/Abstract approaches | Explanation and Language |
| :---: | :---: | :---: |
| Add two 1-digit numbers to 10 | $4+3=7$ <br> -9000-000- | - Aggregation - combining two or more quantities to find a total <br> - Augmentation - increasing by another quantity, i.e. counting on to find a total <br> - Children can explore Aggregation with the use part/part/whole illustrations, cubes, numicon, bar model and ten frames. These will support the children's understanding of addition providing a conceptual understanding <br> - Children can explore Augmentation with the use of bead-string, number line, bar model and number track. <br> - It is important for children to be able to use a variety of different representations to enable them to develop a conceptual understanding. <br> - Addend - a number to be added to another number |
|  |  | Vocabulary for the children to learn <br> - Addend <br> - Plus <br> - Altogether <br> - Total <br> - Sum <br> - Calculation <br> - Equals <br> - Part/whole |
| Add 1- <br> and <br> 2-digit <br> numbers <br> to 20 |  | - It is important for children to have a clear understanding that when crossing 10, they should be clear that they group 10 ones to make ten, known as unitising (the ability to see a group of objects as a single unit in its own right. For example, one ten being made up of ten ones). |

- They will need to have a clear understanding of when adding 1 and 2-digit numbers that in crossing ten, they need to be fluent in grouping ten ones to make ten before counting on to 20

Vocabulary for the children to learn

- Addend
- Plus
- Altogether
- Total
- Sum
- Calculation
- Equals
- Part/whole
- Partition


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| Add two <br> 2-digit <br> numbers <br> to 100 | 1 <br> $58+27=85$ | - The use of the number line helps the children to become more efficient in their approach by finding the bond to ten and partitioning the numbers along the line more efficiently. <br> - Children should be encouraged to use concrete resources such as place value counters. This way, children will begin to understand exchanging within the calculation. <br> - Once secure with their understanding of exchanging and with a deep conceptual understanding of place value, children can begin to use a more formal method, alongside a pictorial representation. <br> Vocabulary for the children to learn <br> - Addend <br> - Plus <br> - Altogether <br> - Total <br> - Sum <br> - Calculation <br> - Equals <br> - Part/whole <br> - Commutativity <br> - Exchange <br> - Partition |
| :---: | :---: | :---: |
| Add two 3-digit numbers |  | - As children move forward, it is important that they have the written methods alongside pictorial representations to help them progress their understanding. This will be backed up with their conceptual understanding of place value with exchanging and bridging. <br> - The bar model helps children to visualise the problem before any formal calculation takes place. <br> Vocabulary for the children to learn <br> - Addend <br> - Plus <br> - Altogether <br> - Total <br> - Sum <br> - Calculation <br> - Equals <br> - Part/whole <br> - Commutativity <br> - Exchange <br> - Partition |
| Adding decimals |  | - Children can then be extended to adding numbers with decimals (with the same number of decimal places) and encouraged to use a place value holder to support their understanding of place value in relation to decimals <br> - Children need to have a very secure understanding of decimals and their relationship with 1 . <br> - The use of the number line builds on the children's understanding of partitioning. The children should count on efficiently with whole numbers and then the decimals parts. <br> - It is important that children have context when adding numbers with decimal places such as money and other measures. |

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|  |  | Vocabulary for the children to learn <br> - Addend <br> - Plus <br> - Altogether <br> - Total <br> - Sum <br> - Calculation <br> - Equals <br> - Part/whole <br> - Commutativity <br> - Exchange <br> - Partition |
| :---: | :---: | :---: |
|  | Subtraction |  |
| Skills | Representations showing <br> Concrete/Pictorial/Abstract approaches | - Explanation and Language |
| Take away and finding the differenc e |  | - Children are taught take away as a means of subtraction, counting back from the right-hand side as the larger number would appear to the right of a number line. <br> - Finding the difference is clearly represented using Numicon and the bar model as well as cubes. <br> - Children should be given a context in which to begin to understand what finding the difference means so that they are able to begin to understand the mathematical concept. <br> - Using the phrases, first, then, now helps the children to contextualise the calculation with a number story. <br> Vocabulary for the children to learn <br> - Take away <br> - Less than <br> - Find the difference <br> - Subtract |
| Subtracti ng 1-digit numbers within 10 | Now <br> 0000 | - The minuend (the number from which an amount is subtracted) can be represented using numicon and linking cubes so that children can physically manipulate the subtrahend (the number to be subtracted from the minuend) <br> - Again, the bar model helps contextualise the problem for children. <br> - The continued use of numicon helps reinforce children's knowledge of bonds which will aid fluency. <br> Vocabulary for the children to learn <br> - Take away <br> - Less than <br> - Find the difference <br> - Subtract <br> - Minuend <br> - Subtrahend |


| Subtract <br> 1 and 2 <br> digit <br> numbers <br> within 20 | $14-6=8$ <br> (14) <br> 5 <br> $14-5=$ ? $5+$ ? $=14$ | - Children should be taught when crossing 10 the importance of partitioning so that they can use their bonds to 10 knowledge to efficiently subtract. <br> - Tens frames and the number line clearly represent taking away and meeting bonds to ten. Children should count back to the 10 bond which promotes efficiency. <br> - The part-part-whole and bar model help children to understand the inverse of calculations when adding and subtracting as well as helping them to understand the nature of subtraction itself. <br> Vocabulary for the children to learn <br> - Take away <br> - Less than <br> - Find the difference <br> - Subtract <br> - Minuend <br> - Subtrahend <br> - Partition <br> - Inverse |
| :---: | :---: | :---: |
| Subtract <br> 2- digits <br> within <br> 100 |  <br> Lisa is 13 years old. Her sister is 22 years old. Find the difference in age between them. | - Children should use a blank number line to enable them to make efficient jumps in multiples of 10 when counting on to find the difference. <br> - Children should first subtract without exchanging to see the positioning of digits and their value within the calculation. <br> - The use of place value counters and base ten help the children to have a deeper understanding of exchanging where necessary. <br> - Formal written methods should be modeled alongside pictorial representations to consolidate understanding. <br> Vocabulary for the children to learn <br> - Take away <br> - Less than <br> - Find the difference <br> - Subtract <br> - Minuend <br> - Subtrahend <br> - Partition <br> - Inverse <br> - Exchange |
| Subtracti <br> ng <br> numbers with up to 3-digits |   $\square$ <br> 435 <br> 273 - | - Children need to continue to explore the language of subtraction - finding the difference and take away with various representations to illustrate this. <br> - The Bar model clearly illustrates finding the difference and the use of base ten and place value counters help the children to understand the concept of exchanging. <br> - Formal written methods should be modeled alongside pictorial representations to scaffold their understanding <br> Vocabulary for the children to learn <br> - Take away <br> - Less than <br> - Find the difference |



| Subtracti ng numbers with decimal places |  |  | 43 <br> $?$ <br> 43 |  |  | - Here children should have a deep conceptual understanding of place value. They need to have experience of subtracting decimals with a variety of decimal places and are encouraged to use place value holders so that they can recognise the position of digits within the calculation. <br> - It is important that children have context when subtracting numbers with decimal places such as money and other measures. |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  |  |  |  |  | Vocabulary for the children to learn <br> - Take away <br> - Less than <br> - Find the difference <br> - Subtract <br> - Minuend <br> - Subtrahend <br> - Partition <br> - Inverse <br> - Exchange <br> - Decimal place |


| Multiplication |  |  |
| :---: | :---: | :---: |
| Skills | Representations showing Concrete/Pictorial/Abstract approaches | Explanation and Language |
| Repeated addition/ repeated grouping of multiple objects | One bag holds 5 apples. How many apples do 4 bags hold? <br> -00000-00000-0000-00000- <br> A bee has 6 legs. How many legs do 5 bees have? $\begin{aligned} & =0=30=30=30=30= \\ & 6+6+6+6+6 \\ & \text { Multiplier } \times 0=300 \text { Multiplicand } \end{aligned}$ <br> Number of sets Amount in each set | - Children should experience regular counting on and back from different numbers to support division and multiplication. <br> - Use a wide range of resources to encourage a deep understanding of the concept of multiplication. <br> - The children learn about grouping in practical contexts and through pictorial representations. <br> - Through pictorial representations children show counting in groups and multiples. Dots, marks or tallies may be used for the representation and children should be encouraged to count in groups too. <br> - Children show multiplication as repeated addition. As they understand multiplication they will learn to unitise and move from additive to multiplicative reasoning. <br> - Unitising - is seeing the group as a unit rather than as individual ones <br> - Introduce multiplication symbol for recording where children are ready <br> - Multiplier - the number doing the multiplying, how many groups or lots of <br> - Multiplicand - how many in the group being multiplied by <br> - Product - the result of multiplying numbers together. <br> - Please be aware that the image shows the multiplier x groups/lots of (multiplicand) |
|  |  | Vocabulary for the children to learn <br> - Groups of/lots of <br> - Repeated addition <br> - Multiply <br> - Product |
| Representatio n of the multiplication through an array | $\begin{array}{cc} 00000 & 5+5+5+5=20 \\ 00000 & 4 \times 5=20 \\ 00000 & 5 \times 4=20 \end{array}$ $\square$ $\begin{aligned} & 00000000 \\ & 00000000 \\ & 00000000 \end{aligned}$ | - Using an array will give a representation image of the multiplication that will helps the children to develop an understanding that the multiplication is commutative: <br> - $2 \times 3$ and $3 \times 2$ will give the same product. <br> - Introduce multiplication symbol for recording where children are ready <br> - Multiplier - the number doing the multiplying, how many groups or lots of <br> - Multiplicand - how many in the group being multiplied by <br> - Product - the result of multiplying numbers together. <br> - Please be aware that the image shows the multiplier x groups/lots of (multiplicand) |
|  |  | Vocabulary for the children to learn <br> - Groups of/lots of <br> - Repeated addition <br> - Multiply <br> - Product |

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|  |  | - Non-canonical Partitioning |
| :---: | :---: | :---: |
| Grid method as a progression towards formal multiplication | $4 \times 3,0004 \times 2004 \times 204 \times 5$$12.000+800+80+20=12.900$$24 \times 3=72$   <br> $\times$ 20 4 <br> 3 00 0000 <br> 000 0000  <br> 00 0000  <br>  12  <br>   12 <br>   60 <br>   $\frac{12}{73}$ <br> Use place value equipment to multiply by 10,100 and 1,000 by unitising. <br> Grid method <br> Leading to expanded method $\begin{array}{r} 36 \\ \times \quad 4 \\ \hline 24(6 \times 4) \\ 120(30 \times 4) \\ \hline 144 \end{array} \longrightarrow \begin{array}{r} 36 \\ \times \quad 4 \\ \hline \frac{144}{2} \end{array}$ | - Link the grid to arrays with representations to support the conceptual understanding. <br> - Children need to be taught that arrays/grids should be proportional to represent the size of the amount within the section. <br> - Linking the arrays with the dienes, place value counters and the abstract calculations supports the children's understanding of the conceptual understanding <br> - Unitising - is seeing the group as a unit rather than as individual ones <br> - Multiply one digit number by one digit number to solve problems <br> - Array with concrete resources will progress to the grid method then to the expanded column method showing each stage allowing for conceptual understanding. <br> - Known facts should be used to multiply. Vocabulary for the children to learn <br> - Groups of/lots of <br> - Repeated addition <br> - Multiply <br> - Product <br> - Array <br> - Commutativity <br> - Non-canonical Partitioning |
| Column Multiplication |  | - Children will need to be supported by place value counters, dienes and pictorial representations at this stage of multiplication for conceptual understanding. <br> - Manipulatives should only be removed once children have a very secure understanding of place value and fluency in multiplication using the expanded method. <br> Vocabulary for the children to learn <br> - Groups of/lots of <br> - Repeated addition <br> - Multiply <br> - Product <br> - Array <br> - _Commutativity <br> -_Non-canonical Partitioning |




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| Sharing with remainders | Example without remainder <br> $40-5$ <br> Ask "How many 5 s in 40 r $\frac{5+5+5+5+5+5+5}{5+510152025303540}=8 \text { fives }$ <br> Example with remainder $38-6$ <br> $38-6$ $\underbrace{6+6+5+6+6+6+2}_{0<6+518243036}=6 \text { sixes with a remainder of } 2$ | - Divide objects between groups and see how much is left over. <br> - Objects can be drawn in circles to aid dividing pictorially remainders will be seen by not fitting into a whole group. <br> - Use number line and bar model to illustrate pictorial representation. |
| :---: | :---: | :---: |
|  | 37 | Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient <br> - Arrays <br> - Remainder |
| Division of 2 digit by one digit (with no exchange | Tens Ones <br> 00 0000 <br> 00 0000 | - When dividing children can use manipulatives that allow them to partition. Straws, base Ten, place values counters can be used to share numbers into equal groups. |
|  | $48 \div 2=24$ | Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient <br> - Arrays <br> - Remainder |
| Dividing 2 digit by 1 digit with exchanging | 80 000 <br> tans 000 <br> 0 000 <br> 0 000 <br> 0 000 <br> 0 0 | - Children should be encouraged to use manipulatives to physically exchange tens for ones. Appropriate resources are place value counters, base ten. <br> - Use of these manipulatives firstly outside the place value grid supports the understanding of exchanging. <br> - The bar model can be used to provide a clear understanding of the problem being asked to give a clearer picture alongside the manipulatives to provide a clearer understanding. |
|  |  | Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient |


|  |  | - Arrays <br> - Remainder <br> - Exchange |
| :---: | :---: | :---: |
| Dividing 2 digit by 1 digit (sharing with remainders) | 000 0000000 <br> 00 00000 <br> 0 000 <br> 0 000 <br> 0 000 <br> 0 000$\quad \mathbf{5 3} \div \mathbf{4}=\mathbf{1 3} \mathbf{r 1}$ <br> (20) | - Children should be encouraged to use place value counters and base ten. If they manipulate these outside the place value grid in the first instance, they will be able to see the remainders that are left behind once the equal groups have been made. <br> - Modeling the bar model alongside the place value grids will help children to see the relationship between equal groups and remainders. <br> - Illustrating a division calculation along a number line helps children to visualise the number line and the equal groups (divisor)in the calculation as well as any remainders outside the equal groups. <br> Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient <br> - Arrays <br> - Remainder <br> - Exchange |
| Dividing 2 digit by 1 digit by grouping |   1 3  <br>  4 5 $1_{2}$ $52 \div 4=13$ <br> Continue to use blank number lines as appropriate, using multiples of the divisor. $65 \div 5=13$ $\begin{array}{r} 093 \\ 8 \longdiv { 7 ^ { 7 } 4 ^ { 1 } 4 } \end{array}$ | - When using grouping in short division, children should start with the largest place value and grouping by the divisor. <br> - Language is key here! Children are to ask "How many groups of 4 ten can we make?" and then "How many groups of 4 ones can we make?" Any remainders will be clearly shown as left behind and ungrouped. <br> - Children should be made aware that a zero is used to represent a number that is not divisible. <br> Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient <br> - Arrays <br> - Remainder <br> - Exchange |

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| Dividing 3 digit by 1 digit by sharing |  | - Part/Part/Whole models with flexible partitioning enable children to use their knowledge of partitioning and multiples of the divisor to efficiently find the quotient. <br> - Children are to continue using place value counters outside the place value grid initially to help with exchanging before grouping into equal groups (divisor) and highlighting any remainders. <br> - Blank number lines are less efficient here as the dividend will be too great to manipulate with single digit divisors. |
| :---: | :---: | :---: |
|  |  | Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient <br> - Arrays <br> - Remainder <br> - Exchange <br> - Partition |
| Dividing 3 digit by 1 digit with grouping |  | - Children continue to use place value counters and grouping and later by drawing to support this understanding. <br> - Once children have a deep conceptual understanding of dividing with grouping, model the written method alongside to reinforce this concept. |
|  |  | Vocabulary for the children to learn <br> - Share <br> - Divide <br> - Equal groups <br> - Repeated subtraction <br> - Divisor <br> - Quotient <br> - Arrays <br> - Remainder <br> - Exchange <br> - Partition |
| Dividing 4 digit numbers by 1 (grouping) | $8,532 \div 2=4,266$ | - Place value counters can be moved on a place value grid to support grouping and exchanging. Drawing counters moves children towards a more pictorial representation. <br> - Be mindful that multiple exchanges can become confusing when children are drawing and manipulating counters here and so, when children have a conceptual understanding of exchange, a written method should be modeled alongside to consolidate the understanding. |
|  |  | Vocabulary for the children to learn |

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## CARES Curriculum

CARES (Community, Aspiration, Resilience, Emotional Well-Being):

In addition to the coverage of the national curriculum, Sheringham Community Primary School \& Nursery have prioritised four extra elements, based on extensive consultation with stakeholders, designed specifically to meet the needs of the children growing up in our context.
They are Community, Aspiration, Resilience and Emotional Well-Being.

## Community

We aim to provide carefully sequenced cumulative work which allows learners to make connections between different mathematical concepts and contexts building on prior learning and understanding how the mathematics fits into all aspects of life.

## Aspiration

It is our aim that all pupils can achieve success in mathematics, through mastering the numbers system, developing mathematical thinking and vocabulary, exploring mathematical concepts and explain processes by proving their mathematical ideas.

## Resilience

We aim to provide a mathematics curriculum which will allow all pupils to become resilient, confident, and independent mathematical learners who build on immediate feedback and intervention and by retrieving, using and applying concepts regularly, develop fluency as well as conceptual understanding.

## Emotional

We aim to develop a growth mindset 'can do' attitude towards mathematics giving children opportunities to fully explore mathematical concepts, using a range of manipulatives and models which enable pupils to represent ideas, make connections and experience the joy of mathematics.

## Skills and Knowledge

Mathematical understanding is not about memorising facts and procedures: it is about enquiry to develop an understanding in and manipulation of numbers to problem solve. We aim to encourage pupils to find multiple routes to solve problems, reason about mathematics and through carefully scaffolded question provoke pupils to think beyond the surface.

## Inclusion

All children have equal access to the curriculum regardless of background, prior attainment or SEND. We aim to incorporate mathematics into a range of experiences enabling all pupils to achieve success and reach as high a standard as possible.
Further information can be found in our statement of equality information and objectives, and in our SEN policy and information report.

## Links to Policies:

| Version 2 | $3^{\text {rd }}$ January 2023

This policy should be read in conjunction with the:

- EYFS Policy
- Feedback Policy
- Assessment, Recording \& Reporting Policy
- Homework Policy
- SEN Information Report
- Calculation Policy

This policy reflects the requirements of the National Curriculum programmes of study, which all maintained schools in England must teach.

In addition, this policy acknowledges the requirements for promoting the learning and development of children set out in the Early Years Foundation Stage (EYFS) statutory framework

## Monitoring and review

We are aware of the need to review and update the school mathematics policy regularly to take into account of new initiatives, changes in the curriculum and assessment. We will review this policy in September 2022.

## Policy Signed by:

## Head Teacher

## Chair of Governors

Date:

## Next review date: September 2022

