Mathematics

## INTENT, IMPLEMENTATION, IMPACT

| East Sheen Primary School | Intent | Implementation | Impact |
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| Reception: | At East Sheen we want all of the children in EYFS to develop a secure basis for their mathematical learning, which will stand them in good stead as they move through the school. <br> Developing a strong grounding in number is essential so that all children develop the necessary building blocks to excel mathematically. <br> What does it look like: <br> -Mathematics introduces children to concepts, skills and thinking strategies that are essential in everyday life and support learning across the curriculum. <br> Number: <br> -It is important that children develop positive attitudes and interests in mathematics, look for patterns and relationships, spot connections, 'have a go', talk to adults and peers about what they notice and not be afraid to make mistakes. <br> -Understanding the link between numbers and quantities. <br> -Count confidently, develop a deep understanding of the numbers to 10 , the | In EYFS we follow the White Rose Guidance for Reception, which is used to ensure coverage and progression and also introduces the children to key concepts and mathematical language using concrete, pictorial and abstract methodologies. We provide frequent and varied opportunities to build and apply this understanding - such as using a variety of manipulatives, including small objects for organising counting. Ten Frames have been embedded into children's daily work including children selfregistration system in the form of ten frames. Children are introduced to different models such as Whole/ part and bar models which are used regularly during lessons and continuous provisions using all methodologies and models. Children will develop a secure base of knowledge and vocabulary from which mastery of mathematics is built. <br> Our curriculum includes rich opportunities for children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measures. <br> Maths lessons and in free flow: | The impact of Maths Teaching in the EYFS will be measured through: <br> Observations: <br> EYFS staff use observations as the basis for planning. Staff are skilled at observing children to identify their achievements, interests and next steps for learning. <br> These observations then lead the direction of the planning. Relevant and significant observations are recorded in the children's online Learning Journeys on Tapestry. <br> Target Tracker is used as the school's assessment tool that enables teachers to record their observations at the end of the Foundation Stage, and to summarise their pupils' progress towards the Early Learning Goals. It covers each of the seven areas of learning contained in the curriculum guidance for the Foundation Stage 2021, including Mathematical Development. <br> Drop in/Learning Walk SLT: Termly during whole class activities, group work and also during child-initiated learning will enable us to see how the approach is working, |

relationships between them and the patterns within those numbers.
-Subitise (recognise quantities without counting) up to 5.
-Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5, (including subtraction facts) and some number bonds to 10 , including double facts.

## Numerical Pattern:

-Have a deep understanding of number to 10 , including the composition of each number.
-Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity.
-Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally.
-Verbally count beyond 20, recognising the pattern of the counting system

A mixture of whole class activities such as daily counting, guided maths sessions, and through opportunities provided in continuous provision both inside and outside to apply their mathematical understanding
in different real-life contexts. In addition, it is important that the curriculum includes rich opportunities for the
children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measure.

## Maths lessons and in free flow:

A mixture of whole class activities such as daily counting, guided maths sessions, and through opportunities provided in continuous provision both inside and outside to apply their mathematical understanding in different real-life contexts. In addition, it is important that the curriculum includes rich opportunities for the
children to develop their spatial reasoning skills across all areas of mathematics including shape, space and measure.
and how the children are applying their knowledge and understanding in their play.

Assessment: For every child in Reception, teachers complete a baseline assessment in their first six weeks of school. The National Reception Baseline Assessment is an online assessment in which children are asked to carry out early Maths activities in order to gauge their starting points. This information will be used to inform the planning of our curriculum to ensure that it meets the needs of all of our learners.
Each half-term, we assess each child's level of development to be beginning, within or securely working within the Development Matters age band. This is then recorded on our whole school assessment software, Target Tracker. These assessments allow us to identify patterns of attainment within the cohort, in order to adjust the teaching program for individual children and groups of children.
The above information is shared in Pupil Progress meetings.
Interventions are put in place to enable gaps to be closed.

Place Value:

- count to and across 100 , forwards and backwards, beginning with 0 or 1 , or from any given number
- count, read and write numbers to 100 in numerals; count in multiples of $2 \mathrm{~s}, 5 \mathrm{~s}$ and 10 s
- given a number, identify 1 more and 1 less
- identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least
- read and write numbers from 1 to 20 in numerals and words


## Addition and subtraction:

- read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs
- represent and use number bonds and related subtraction facts within 20
- add and subtract one-digit and two-digit numbers to 20, including 0
- solve one-step problems that involve addition and subtraction, using concrete objects and pictorial representations, and missing number problems such as $7=$ ? -9


## Multiplication and division:

- solve one-step problems involving multiplication and division, by calculating the answer using

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Ways in which we assess the impact of mathematics teaching:

## Formative:

Daily formative assessment in all lessons Daily KIRFs

## Summative:

White Rose Maths end of unit tests at the end of each half term

Key vocabulary

See maths vocabulary document



- count in steps of 2,3 , and 5 from 0 , and in 10s from any number, forward and backward
- recognise the place value of each digit in a two-digit number (10s, 1s)
- identify, represent and estimate numbers using different representations, including the number line
- compare and order numbers from 0 up to 100; use <, > and = signs
- read and write numbers to at least 100 in numerals and in words
- use place value and number facts to solve problems


## Addition and subtraction:

- solve problems with addition and subtraction:
- using concrete objects and pictorial representations, including those involving numbers, quantities and measures
- applying their increasing knowledge of mental and written methods
- recall and use addition and subtraction facts to 20 fluently, and derive and use related facts up to 100
- add and subtract numbers using concrete objects, pictorial representations, and mentally, including:
- a two-digit number and 1s

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## Ways in which we assess the impact of mathematics teaching:

## Formative:

Daily formative assessment in all lessons Daily KIRFs

## Summative:

SATs Papers
Tough ten

Key vocabulary

- a two-digit number and 10s
- 2 two-digit numbers
- adding 3 one-digit numbers
- show that addition of 2 numbers can be done in any order (commutative) and subtraction of 1 number from another cannot
- recognise and use the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems


## Multiplication and division:

- recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers
- calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication $(\times)$, division $(\div)$ and equals ( $=$ ) signs
- show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot
- solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts


## Fractions:

- recognise, find, name and write
fractions $\frac{1}{3}, \frac{1}{4}, \frac{2}{4}$ and $\frac{3}{4}$ of a length, shape, set of objects or quantity
- write simple fractions, for
example ${ }^{\frac{1}{2}}$ of $6=3$ and recognise the equivalence of $\frac{2}{4}$ and $\frac{1}{2}$


## Measurement:

- choose and use appropriate standard units to estimate and measure length/height in any direction (m/cm); mass (kg/g); temperature $\left({ }^{\circ} \mathrm{C}\right)$; capacity (litres/ml) to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels
- compare and order lengths, mass, volume/capacity and record the results using >, < and =
- recognise and use symbols for pounds ( $£$ ) and pence (p); combine amounts to make a particular value
- find different combinations of coins that equal the same amounts of money
- solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change
- compare and sequence intervals of time
- tell and write the time to five minutes, including quarter past/to the hour and draw the hands on a clock face to show these times
- know the number of minutes in an hour and the number of hours in a day


## Geometry:

- identify and describe the properties of 2-D shapes, including the number of sides, and line symmetry in a vertical line
- identify and describe the properties of 3-D shapes, including the number of edges, vertices and faces
- identify 2-D shapes on the surface of 3-D shapes, [for example, a circle on a cylinder and a triangle on a pyramid]
- compare and sort common 2-D and 3-D shapes and everyday objects
- order and arrange combinations of mathematical objects in patterns and sequences
- use mathematical vocabulary to describe position, direction and movement, including movement in a straight line and distinguishing between rotation as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise)


## Statistics:

- interpret and construct simple pictograms, tally charts, block diagrams and tables
- ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity
- ask-and-answer questions about totalling and comparing categorical data

Place value:

- count from 0 in multiples of $4,8,50$ and 100; find 10 or 100 more or less than a given number
- recognise the place value of each digit in a 3 -digit number (100s, 10s, 1s)
- compare and order numbers up to 1,000
- identify, represent and estimate numbers using different representations
- read and write numbers up to 1,000 in numerals and in words
- solve number problems and practical problems involving these ideas


## Addition and subtraction:

- add and subtract numbers mentally, including:
- a three-digit number and 1s
- a three-digit number and 10s
- a three-digit number and 100s
- add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction
- estimate the answer to a calculation and use inverse operations to check answers
- solve problems, including missing number problems, using number

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Ways in which we assess the impact of mathematics teaching:

## Formative:

Daily formative assessment in all lessons Daily KIRFs

## Summative:

NFER test papers (Autumn and Summer)
Gap Analysis for NFER Arithmetic
Bi-Weekly Arithmetic Papers
Bi-Weekly Mental Maths Papers
Speed tables
Tough ten
Weekly Times Table testing

Key vocabulary
facts, place value, and more complex addition and subtraction

## Multiplication and division:

- recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables
- write and calculate mathematical statements for multiplication and division using the multiplication tables that they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods
- solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects


## Fractions:

- count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10
- recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators
- recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators
- recognise and show, using diagrams, equivalent fractions with small denominators
- add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7}+\frac{1}{7}=\frac{6}{7}$ ]
- compare and order unit fractions, and fractions with the same denominators
- solve problems that involve all of the above


## Measurement:

- measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g); volume/capacity (l/ml)
- measure the perimeter of simple 2D shapes
- add and subtract amounts of money to give change, using both $£$ and $p$ in practical contexts
- tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks
- estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight
- know the number of seconds in a minute and the number of days in each month, year and leap year

- recognise the place value of each digit in a four-digit number (1,000s, 100s, 10s, and 1s)
- order and compare numbers beyond 1,000
- identify, represent and estimate numbers using different representations
- round any number to the nearest 10,100 or 1,000
- solve number and practical problems that involve all of the above and with increasingly large positive numbers
- read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of 0 and place value


## Addition and subtraction:

- add and subtract numbers with up to 4 digits using the formal written methods of columnar addition and subtraction where appropriate
- estimate and use inverse operations to check answers to a calculation
- solve addition and subtraction twostep problems in contexts, deciding which operations and methods to use and why


## Multiplication and division:

- recall multiplication and division facts for multiplication tables up to $12 \times 12$
- use place value, known and derived facts to multiply and divide
knowledge (reasoning and problem-solving) We ensure children are proficient with their core conceptual knowledge by focusing on different key instant recall facts - which are in line with our progression with mental calculations policy - each half term, and ensure key vocabulary is taught explicitly.

Gap Analysis for NFER Arithmetic
Bi-Weekly Arithmetic Papers
Bi-Weekly Mental Maths Papers
Speed tables
Tough ten
Weekly Times Table testing

Key vocabulary
mentally, including: multiplying by 0 and 1 ; dividing by 1 ; multiplying together 3 numbers

- recognise and use factor pairs and commutativity in mental calculations
- multiply two-digit and three-digit numbers by a one-digit number using formal written layout
- solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by 1 digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects


## Fractions (including decimals):

- recognise and show, using diagrams, families of common equivalent fractions
- count up and down in hundredths; recognise that hundredths arise when dividing an object by 100 and dividing tenths by 10
- solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including nonunit fractions where the answer is a whole number
- add and subtract fractions with the same denominator
- recognise and write decimal equivalents of any number of tenths or hundreds
- recognise and write decimal equivalents to $\frac{1}{4}, \frac{1}{2}, \frac{3}{4}$
- find the effect of dividing a one- or two-digit number by 10 and 100, identifying the value of the digits in the answer as ones, tenths and hundredths
- round decimals with 1 decimal place to the nearest whole number
- compare numbers with the same number of decimal places up to 2 decimal places


## Measurement:

- solve simple measure and money problems involving fractions and decimals to 2 decimal places
- convert between different units of measure [for example, kilometre to metre; hour to minute]
- measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
- find the area of rectilinear shapes by counting squares
- estimate, compare and calculate different measures, including money in pounds and pence
- read, write and convert time between analogue and digital 12and 24-hour clocks
- solve problems involving converting from hours to minutes, minutes to seconds, years to months, weeks to days

- count forwards or backwards in steps of powers of 10 for any given number up to 1,000,000
- interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through 0
- round any number up to $1,000,000$ to the nearest 10, 100, 1,000, 10,000 and 100,000
- solve number problems and practical problems that involve all of the above
- read Roman numerals to 1,000 (M) and recognise years written in Roman numerals


## Addition and subtraction:

- add and subtract whole numbers with more than 4 digits, including using formal written methods (columnar addition and subtraction)
- add and subtract numbers mentally with increasingly large numbers
- use rounding to check answers to calculations and determine, in the context of a problem, levels of accuracy
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why


## Multiplication and division:

- identify multiples and factors, including finding all factor pairs of a
declarative and procedural knowledge (fluency) and build upon their conditional knowledge (reasoning and problem-solving). We ensure children are proficient with their core conceptual knowledge by focusing on different key instant recall facts - which are in line with our progression with mental calculations policy - each half term, and ensure key vocabulary is taught explicitly.

Summative:
NFER test papers (Autumn and Summer)
Gap Analysis for NFER Arithmetic
Bi-Weekly Arithmetic Papers
Bi-Weekly Mental Maths Papers
Speed tables
Tough ten

Key vocabulary



- round decimals with 2 decimal places to the nearest whole number and to 1 decimal place
- read, write, order and compare numbers with up to 3 decimal places
- solve problems involving number up to 3 decimal places
- recognise the per cent symbol (\%) and understand that per cent relates to 'number of parts per 100 ', and write percentages as a fraction with denominator 100, and as a decimal fraction
- solve problems which require knowing percentage and decimal $\frac{1}{2}, \frac{1}{4}, \frac{1}{5}, \frac{2}{5}, \frac{4}{5}$ equivalents of $\overline{2}, \overline{4}, \overline{5}, \overline{5}, \overline{5}$ and those fractions with a denominator of a multiple of 10 or 25


## Measurement:

- convert between different units of metric measure [for example, kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre]
- understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints
- measure and calculate the perimeter of composite rectilinear shapes in centimetres and metres
- calculate and compare the area of rectangles (including squares), including using standard units,

|  | square centimetres $\left(\mathrm{cm}^{2}\right)$ and square metres $\left(\mathrm{m}^{2}\right)$, and estimate the area of irregular shapes <br> - estimate volume [for example, using $1 \mathrm{~cm}^{3}$ blocks to build cuboids (including cubes)] and capacity [for example, using water] <br> - solve problems involving converting between units of time <br> - use all four operations to solve problems involving measure [for example, length, mass, volume, money] using decimal notation, including scaling <br> Geometry: <br> - identify 3-D shapes, including cubes and other cuboids, from 2-D representations <br> - know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles <br> - draw given angles, and measure them in degrees ( ${ }^{\circ}$ ) <br> - identify: <br> - angles at a point and 1 whole turn (total $360^{\circ}$ ) <br> - angles at a point on a straight line and half a turn (total $180^{\circ}$ ) <br> - other multiples of $90^{\circ}$ <br> - use the properties of rectangles to deduce related facts and find missing lengths and angles <br> - distinguish between regular and irregular |  |  |
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|  | polygons based on <br> reasoning about equal <br> sides and angles <br> - identify, describe and represent the position of a shape following a reflection or translation, using the appropriate language, and know that the shape has not changed <br> Statistics: <br> - solve comparison, sum and difference problems using information presented in a line graph <br> - complete, read and interpret information in tables, including timetables |  |  |
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| Year 6 | Place value: <br> - read, write, order and compare numbers up to 10,000,000 and determine the value of each digit <br> - round any whole number to a required degree of accuracy <br> - use negative numbers in context, and calculate intervals across 0 <br> - solve number and practical problems that involve all of the above <br> Addition, subtraction, multiplication and division: <br> - multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication <br> - divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders | At ESPS, we teach maths through a mastery approach, using concrete, pictorial and abstract methodologies (See calculations policy). We follow the White Rose Maths Scheme of learning to ensure all small steps of progression are covered. During each lesson, children are able to develop their declarative and procedural knowledge (fluency) and build upon their conditional knowledge (reasoning and problem-solving). We ensure children are proficient with their core conceptual knowledge by focusing on different key instant recall facts - which are in line with our progression with mental calculations policy - each half term, and ensure key vocabulary is taught explicitly. | Ways in which we assess the impact of mathematics teaching: <br> Formative: <br> Daily formative assessment in all lessons <br> Daily KIRFs <br> Summative: <br> SATs papers <br> Weekly Arithmetic Papers <br> Speed tables <br> Tough ten <br> Key vocabulary |

as whole number remainders, fractions, or by rounding, as appropriate for the context

- divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context
- perform mental calculations, including with mixed operations and large numbers
- identify common factors, common multiples and prime numbers
- use their knowledge of the order of operations to carry out calculations involving the 4 operations
- solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why
- solve problems involving addition, subtraction, multiplication and division
- use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy


## Fractions (including decimals and

 percentages):- use common factors to simplify fractions; use common multiples to express fractions in the same denomination
- compare and order fractions, including fractions $>1$
- add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions
- multiply simple pairs of proper fractions, writing the answer in its simplest form [for
example, $\frac{1}{4} \times \frac{1}{2}=\frac{1}{8}$ ]
- divide proper fractions by whole numbers [for example, $\frac{1}{3} \div 2=\frac{1}{6}$ ]
- associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, $\frac{3}{8}$ ]
- identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places
- multiply one-digit numbers with up to 2 decimal places by whole numbers
- use written division methods in cases where the answer has up to 2 decimal places
- solve problems which require answers to be rounded to specified degrees of accuracy
- recall and use equivalences between simple fractions, decimals and percentages, including in different contexts
- solve problems involving the relative sizes of 2 quantities where missing values can be found by using integer multiplication and division facts
- solve problems involving the calculation of percentages [for example, of measures and such as $15 \%$ of 360 ] and the use of percentages for comparison
- solve problems involving similar shapes where the scale factor is known or can be found
- solve problems involving unequal sharing and grouping using knowledge of fractions and multiples


## Algebra:

- use simple formulae
- generate and describe linear number sequences
- express missing number problems algebraically
- find pairs of numbers that satisfy an equation with 2 unknowns
- enumerate possibilities of combinations of 2 variables


## Measurement:

- solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate
- use, read, write and convert between standard units, converting measurements of length, mass,
volume and time from a smaller unit of measure to a larger unit, and vice versa, using decimal notation to up to 3 decimal places
- convert between miles and kilometres
- recognise that shapes with the same areas can have different perimeters and vice versa
- recognise when it is possible to use formulae for area and volume of shapes
- calculate the area of parallelograms and triangles
- calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres ( $\mathrm{cm}^{3}$ ) and cubic metres $\left(\mathrm{m}^{3}\right)$, and extending to other units [for example, $\mathrm{mm}^{3}$ and $\mathrm{km}^{3}$ ]

Geometry:

- draw 2-D shapes using given dimensions and angles
- recognise, describe and build simple 3-D shapes, including making nets
- compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons
- illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius
- recognise angles where they meet at a point, are on a straight line, or

|  | are vertically opposite, and find missing angles <br> - describe positions on the full coordinate grid (all 4 quadrants) <br> - draw and translate simple shapes on the coordinate plane, and reflect them in the axes <br> Statistics: <br> - interpret and construct pie charts and line graphs and use these to solve problems <br> - calculate and interpret the mean as an average |  |  |
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