## FELSTED PRIMARY SCHOOL

MATHS CURRICULUM AND ASSESSMENT - 2024


Nurturing today's minds for tomorrow's challenges

- Be Respectful
- Be positive
- Be the best you can be
- Save our world!


## Our Intent

At FPS we apply a mastery approach to the teaching of Mathematics. Mastery in the teaching of mathematics is the belief that all children have the potential to succeed. They should have access to the same curriculum content and, rather than being extended with new learning, they should deepen their conceptual understanding by tackling challenging and varied problems. Similarly, with calculation strategies, children must not simply rote learn procedures but demonstrate their understanding of these procedures through the use of concrete materials and pictorial representations.

Through the provisions in our curriculum we intend to:

- Promote enjoyment and enthusiasm for learning through practical activity, exploration and discussion
- Promote confidence and competence with numbers and the number system
- Develop procedural fluency and conceptual understanding in all areas of maths
- Develop the ability to solve problems through decision-making and reasoning in a range of context
- Develop the skills of reasoning, enquiring and justifying
- Develop a practical understanding of the ways in which information is gathered and presented
- Explore features of shape and space, and develop measuring skills in a range of contexts
- Understand the importance of mathematics in everyday life
- For all pupils to 'master' maths

The curriculum is based on the White Rose Maths Scheme: https://whiterosemaths.com/

## White Rose Yearly Overviews

Year R

|  | Week 1 Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} E \\ \hline \\ \hline \end{gathered}$ | Getting to know you you | Match, sort and compare FREE TRIAL |  | Talk about measure and patterns |  | It's me 1, 2, 3 |  |  | 1, 2, 3, 4, 5 |  |  |
| $\underset{\Phi}{E}$ | Alive in 5 | $\frac{7}{\circ}$ $\frac{8}{8}$ $\frac{8}{8}$ | Gro$6,7$ |  | Length, height and time |  | Building 9 and 10 |  |  | Explore 3-D shapes |  |
|  | VIEW | VIEW |  | VIEW |  | VIEW |  |  | VIEW |  | VIEW |
| E | To 20 and beyond |  | Manipulate, compose and decompose |  | Sharing and grouping |  | Visualise, build and map |  |  |  | 읗 응 응 잉 |
|  | VIEW | VIEW |  | VIEW |  | VIEW |  |  | VIEW | VIEW |  |


|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number <br> Place value (within 10) |  |  |  |  | Number <br> Addition and subtraction (within 10) |  |  |  |  |  | 은 흥 O 0 0 |
| $\begin{aligned} & \text { 음 } \\ & \text { 듬 } \end{aligned}$ | Number <br> Place <br> (with | Value <br> n 20) |  | Number <br> Addit <br> subtr <br> (with | on and action <br> 20) |  | Number <br> Place <br> (with | value <br> n 50) | Measur <br> Leng and heigh |  | Measure <br> Mass <br> and volum | ment |
| $\stackrel{\rightharpoonup}{\ddot{\omega}}$ $\stackrel{1}{v}$ जn | Number <br> Multi and d | licati vision |  | Number <br> Fract |  |  | Number Place (with | ralue (100) |  | Measure <br> Time |  |  |


|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number <br> Place value |  |  |  | Number <br> Addition and subtraction |  |  |  |  | Geometry <br> Shape |  |  |
| $\begin{aligned} & \text { 음 } \\ & \text { in } \end{aligned}$ | Meas <br> Mo |  | Number <br> Multiplication and division |  |  |  |  | Measur <br> Leng and heig | ement <br> th | Measurement <br> Mass, capacity and temperature |  |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{\epsilon} \\ & \stackrel{E}{E} \\ & \stackrel{y}{n} \end{aligned}$ | Number <br> Fractions |  |  | Measurement Time |  |  | Stat | Stics | Geometry <br> Position <br> and <br> direction |  | Consoli | idation |



|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 坒 | Number <br> Place value |  |  |  | Number <br> Addition and subtraction |  |  | 坒 | Number <br> Multiplication and division A |  |  | $\begin{aligned} & \text { 흘 } \\ & \text { 흫 } \\ & \text { 응 } \end{aligned}$ |
| $\begin{aligned} & \text { 음 } \\ & \text { 言 } \end{aligned}$ | Number <br> Multiplication and division B |  |  | Measurement <br> Length <br> and perimeter |  | Number Fractions |  |  |  | Number Decimals A |  |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{6} \\ & \stackrel{E}{E} \\ & \stackrel{y y y}{c} \end{aligned}$ | Numbe <br> Decir | tals $:$ | Measurement <br> Money |  | Measurement Time |  | $\begin{aligned} & \text { 흘 } \\ & \text { 믕 } \\ & \text { 웅 } \end{aligned}$ | Geometry <br> Shape |  |  | Geometry <br> Position and direction |  |


|  | Week 1 | Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Number <br> Place | value |  | Number <br> Additio <br> and <br> subtra | ction | Number Multiplication and division A |  |  | Number <br> Fractions A |  |  |  |
| $\begin{aligned} & \text { 음 } \\ & \text { 훈 } \end{aligned}$ | Number <br> Multip and d | lication vision |  | Number <br> Fractions B |  | Number <br> Decimals and percentages |  |  | Measurement <br> Perimeter and area |  | Statistics |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{\ddot{E}} \\ & \stackrel{E}{E} \\ & \text { n } \end{aligned}$ | Geometry <br> Shape |  |  | Geometry <br> Position <br> and <br> direction |  | Number Decimals |  |  |  | Measurement Converting units |  |  |


|  | Week 1 Week 2 | Week 3 | Week 4 | Week 5 | Week 6 | Week 7 | Week 8 | Week 9 | Week 10 | Week 11 | Week 12 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| $\begin{gathered} \underline{E} \\ \text { 水 } \end{gathered}$ | Number <br> Place value | Number <br> Addition, subtraction, multiplication and division |  |  |  |  | Number <br> Fractions A |  | Number <br> Fractions B |  |  |
| $\begin{aligned} & \text { 음 } \\ & \text { in } \end{aligned}$ | Ratio | Algebra |  | Number <br> Decim |  | Number <br> Fractions, decimals and percentages |  | Measurement <br> Area, <br> perimeter <br> and <br> volume |  | Statistics |  |
| $\begin{aligned} & \stackrel{\rightharpoonup}{6} \\ & \stackrel{E}{E} \\ & \stackrel{y}{n} \end{aligned}$ | Geometry Shape |  |  | Themed projects, consolidation and problem solving |  |  |  |  |  |  |  |

The yearly overview provides the sequence of units ensuring progression in each year group and between year groups. The order of the Small steps is followed to ensure suitable progression through a unit of teaching.

Use your professional judgement to plan and sequence lessons, making adjustments and adaptations where necessary. There is flexibility in how lessons are structured and delivered to respond to the individual needs of the class.

NCETM teaching for Mastery materials (https://www.ncetm.org.uk/teaching-for-mastery/mastery-materials/) as well as Power Maths text books and practice books are also used as an additional resource to support the implementation of the Maths curriculum.

## Measuring Impact

We aim for pupils to leave Felsted Primary School with a secure understanding of the academic content; with the understanding of how to be socially, morally, spiritually and culturally responsible and aware; how to make positive contributions to the local community and how to endeavour to be the best that they can be. We aim for all of our children to leave Felsted respectful, skilful, ambitious and with a thirst for life and all it has to offer.

## By the end of their Primary career we intend for all our pupils to have:

- Enjoyment and enthusiasm for learning, demonstrating confidence to explore and discuss their maths
- Confidence and competence with numbers and the number system
- Procedural fluency and conceptual understanding in all areas of the taught maths curriculum
- The ability to solve problems through decision-making and reasoning in a range of context
- The skills of reasoning, enquiring and justifying
- A practical understanding of the ways in which information is gathered and presented
- Explored features of shape and space, and developed measuring skills in a range of contexts
- An understanding of the importance of mathematics in everyday life
- Demonstrated a mastery of the maths primary curriculum


## To ensure pupils are on track to achieve this we:

Use short-term assessments to help adjust daily plans and / or provide immediate interventions so that the pupils do not develop gaps or fall behind the age expected standards. These short-term assessments are closely matched to the teaching objectives.

Short-term assessments are recorded on Tapestry against the given assessment criteria.
Use medium-term assessments to measure progress against the key objectives, and to help us plan the next unit of work. These are made on Tapestry and finalised at the end of every term. Put these assessments on the Assessment Overview on Teams for each class. The assessment criteria on Tapestry and our key assessment criteria are used to inform these judgement.

Key assessment criteria by year group:

## Autumn ON-TRACK STATEMENTS 10/ OBJECTIVES 7 <br> Number: Place Value

1. Count to ten, forwards and backwards, beginning with 0 or 1, or from any given number.
2. Count, read and write numbers to 10 in numerals and words.
3. Given a number, identify one more or one less.
4. 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.
Number: Addition and Subtraction
5. Represent and use number bonds and related subtraction facts (within 10) 6. Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=) signs.
6. Add and subtract one digit numbers to 10 , including zero.
7. Solve one step problems that involve addition and subtraction, using
concrete objects and pictorial representations and missing number problems

## Geometry: Shape

9. Recognise and name common 2D shapes, including for example rectangles (including squares), circles and triangles.
10. Recognise and name common 3D shapes, including for example, cuboids (including cubes), pyramids and spheres

## Number: Place Value

Number: Place Value
11. Count to twenty, forwards and backwards, beginning with 0 or 1 , from any given number.
12. Count, read and write numbers to 20 in numerals and words.
13. 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.

Spring ON-TRACK STATEMENTS 21/ OBJECTIVES 14 Number: Addition and Subtraction

1. Represent and use number bonds and related subtraction facts within 20. 2. Read, write and interpret mathematical statements involving addition (+), subtraction $(-)$ and equals ( $=$ ) signs.
2. Add and subtract one digit and two digit numbers to 20, including zero.
3. Solve one step problems that involve addition and subtraction, using concrete objects and pictorial representations and missing number problems e.g. $7=[]-9$

Number: Place Value
5. Count to fifty, forwards and backwards, beginning with 0 or 1, or from any 5. Count to fifty,
6. Count, read and write numbers to 50 in numerals and words. 7 Given a number, identify one more or one less.
8. 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.
9. Count in multiples of two's, five's and tens

Measurement: Length and height
10. Measure and begin to record lengths and heights
11. Compare, describe and solve practical problems for: lengths and heights (for example long/short, longer/shorter, tall/short, double/half)

Measurement: Weight and volume
12. Measure and begin to record mass/ weight, capacity and volume
13. Compare, describe and solve practical problems for mass/weight (for example: heavy/light, heavier than/lighter than), capacity and volume(for example full/empty, more than/less than, half, half full, quarter

Summer ON-TRACK STATEMENTS 33/ OBJECTIVES 22 Number - Multiplication and division

1. Count in multiples of twos, fives and tens
2. Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support of the teacher
Number-Fractions
3. Recognise, find and name a half as one of two equal parts of an object
shape or quantity.
4. Recognise, find and name a quarter as one of four equal parts of an object, shape or quantity.
5. Compare, describe and solve practical problems for:
a) lengths and heights [... double/half];
b) mass/weight [for example, heavy/light, heavier than, lighter than];
c) capacity and volume [for example, full/empty, more than, less than, half, half full, quarter];
Geometry - Position and direction
6. Describe position, direction and movement, including whole, half, quarter and three quarter turns.
Number - Place Value
7. Count to and across 100, forwards and backwards, beginning with 0 or 1, or from any given number
8. Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.
9. Given a number, identify one more and one 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
Measurement - Money
10. Recognise and know the value of different denominations of coins and notes.
Measurement - Time
11. Sequence events in chronological order using language [for example, before and after, next, first, today, yesterday, tomorrow, morning, afternoon and evening
12. Recognise and use language relating to dates, including days of the week, weeks, months and years.
13. Tell the time to the hour and half past the hour and draw the hands on clock face to show these times.
14. Compare, describe and solve practical problems for: time [for example,
quicker, slower, earlier, later]
15. Measure and begin to record the following: time (hours, minutes, seconds)

## Aut + Spr + Sum

$13+13+15=41$ statements $80 \%$ rule of 41

| $W A=33$ | $G D=34-41$ |
| :--- | :--- |



| Total Statements $=18$ |  |
| :--- | :--- |
| $80 \%$ rule |  |
| $\mathrm{WA}=14$ | GD $=15-18$ |

## Multiplication and Division

Spring ON-TRACK TARGET 24

1. Recall and use multiplication and division facts for the $\mathbf{2 , 5}$ and 10 time tables, including recognising odd and even numbers.
2. Calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (x), division ( $\div$ ) and equals ( $=$ ) signs.
3. Solve problems involving multiplication and division using materials, arrays, repeated addition, mental methods and multiplication and division facts, including problems in context.
4. Show that multiplication of two numbers can be done in any order (commutative) and division of one number by another is not.

## Statistics

5. Interpret and construct simple pictograms, tally charts, block diagrams and simple tables.
6. Ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity.
7. Ask and answer questions about totalling and comparing categorical data. Geometry: Properties of Shape
8. Identify and describe the properties of 2 D shapes, including the number of sides and line symmetry in a vertical line.
9. Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces.
10. Identify 2D shapes on the surface of 3D shapes, [for example, a circle on a cylinder and a triangle on a pyramid].
11. Compare and sort common 2D and 3D shapes and everyday objects.

## Number: Fractions

12. Recognise, find, name and write fractions $1 / 3,1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects or quantity.
13. Write simple fractions for example, $1 / 2$ of $6=3$ and recognise the equivalence of $2 / 4$ and $1 / 2$.

Measurement: Length and height
14. Choose and use appropriate standard units to estimate and measure length,
height in any direction ( $\mathrm{m}, \mathrm{cm}$ ) ...using rulers
15. Compare and order lengths and record the results using $>,<$ and $=$

| Aut $+\mathbf{S p r}$ <br> $\mathbf{1 8} \mathbf{+ 1 5}=\mathbf{3 3}$ statements |  |
| :--- | :---: |
| $80 \%$ rule of $\mathbf{3 3}$ |  |
| WA $=26$ | GD $=27-33$ |

## Summer ON-TRACK TARGET 35

## Geometry - Position and direction

1. 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).
2. Order and arrange combinations of mathematical objects in patterns and sequences.
Problem Solving and Efficient Methods

## Measurement - Time

3. 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.
4. Know the number of minutes in an hour and number of hours in a day.
5. Compare and sequence intervals of time.

Measurement - Mass, Capacity and Temperature
6. Choose and use appropriate standard units to estimate and measure to the nearest appropriate unit, using rulers, scales, thermometers and measuring vessels:
a) length/height in any direction $(\mathrm{m} / \mathrm{cm})$
b) mass (kg/g);
c) temperature $\left({ }^{\circ} \mathrm{C}\right)$;
d) Capacity (litres/ml)
7. Compare and order
a) length
b) mass,
c)
volume/capacit
..and record the results using $><$ and $=$
$80 \%$ rule of 45

| $18+\mathbf{1 5}+\mathbf{1 2}=\mathbf{4 5}$ statements |
| :---: |
| $80 \%$ rule of 45 |

## Year 3




Spring ON-TRACK TARGET 24

Number - Multiplication and Division

1. Recall multiplication
2. Recall multiplication and division facts for multiplication tables up to $12 \times 12$ 2. Use place value, known and derived facts to multiply and divide mentally, including:
aultiplying by 0 and 1 ;
b) dividing by 1 ;
c) Multiplying together three numbers.
3. Recognise and use factor pairs and commutativity in mental calculations 4. Multiply two digit and three digit numbers by a one digit number using formal written layout.
4. Solve problems involving multiplying and adding, including using the distributive law to multiply two digit numbers by one digit, integer scalin problems and harder correspondence problems such as $n$ objects are connected to m objects.
Measurement - Area
5. Find the area of rectilinear shapes by counting squares

## Fraction

7. Recognise and show, using diagrams, families of common equivalen
fractions.
8. Count up and down in hundredths; recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten.
9. Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fraction where the answer is a whole number.
10. Add and subtract fractions with the same denominator. Decimals
11. Recognise and write decimal equivalents of any number of tenths or hundredths.
12. 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.
13. Solve simple measure and money problems involving fractions and decimals to two decimal places.
14. Convert between different units of measure [for example, kilometre to metre]

## Summer ON-TRACK TARGET 37

Decimals

1. Compare numbers with the same number of decimal places up to two decimal places.
2. Round decimals with one decimal place to the nearest whole number
3. Recognise and write decimal equivalents to $1 / 4,1 / 2,3 / 4$.
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
Measurement - Money
pounds and pence. pounds and pence.
5. Solve simple measure and money problems involving fractions and decimals to two decimal places.
6. Convert between different units of measure [for example, hour to minute] 8. Read, write and convert time between analogue and digital 12-and 24 -hour clocks.
7. Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days. Statistics
8. Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs.
9. Solve comparison, sum and difference proble presented in bar charts, pictograms, tables and other graphs.

Geometry - Properties of shape
12. Identify acute and obtuse angles and compare and order angles up to two right angles by size
13. Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes.
14. Identify lines of symmetry in 2 D shapes presented in different orientations. 15. Complete a simple symmetric figure with respect to a specific line of symmetry

Geometry - Position and direction
16. Describe positions on a 2 D grid as coordinates in the first quadrant.
17. Plot specified points and draw sides to complete a given polygon.
18. Describe movements between positions as translations of a given unit to the
left/right and up/down.

## Aut + Spr + Sum

$17+14+18=49$ statement
$80 \%$ rule of 49

| $W A=39$ | $G D=40-49$ |
| :--- | :--- |

## Year 5



## Autumn ON-TRACK TARGET 16

Number: place value

1. Read, write, order and compare numbers up to 10000000 and determine the value of each digit
2. Round any whole number to a required degree of accuracy.
3. Use negative numbers in context, and calculate intervals across zero.
4. Solve number and practical problems that involve all of the above Number-addition, subtraction, multiplication and division
5. Solve addition and subtraction multi step problems in contexts, deciding which operations and methods to use and why.
6. Multiply multi-digit number up to 4 digits by a 2 digit number using the formal written method of long multiplication.
7. Divide numbers up to $\mathbf{4}$ digits by a $\mathbf{2}$ digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions or by rounding as appropriate for the context.
8. Divide numbers up to $\mathbf{4}$ digits by a 2 digit number using the formal written method of short division, interpreting remainders according to context.
9. Perform mental calculations, including with mixed operations and large numbers.
10. Identify common factors, common multiples and prime numbers. 11. Use their knowledge of the order of operations to carry out calculations involving the four operations.
11. Solve problems involving addition, subtraction, multiplication and division 13. Use estimation to check answers to calculations and determine in the context of a problem, an appropriate degree of accuracy.
Fractions
12. Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.
13. Compare and order fractions, including fractions >
14. Generate and describe linear number sequences (with fractions) 17. Add and subtract fractions with different denominations and mixed numbers, using the concept of equivalent fractions.
15. Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example $1 / 4 \times 1 / 2=1 / 8$ ]
16. Divide proper fractions by whole numbers [for example $1 / 3 \div 2=1 / 6$
17. Associate a fraction with division and calculate decimal fraction equivalents [ for example, 0.375 ] for a simple fraction [for example $3 / 8$ ] 21. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
Geometry - position and direction
18. Describe positions on the full coordinate grid (all four quadrants 23. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes.

| Total Statements $=23$ |  |
| :--- | :--- |
| $80 \%$ rule |  |
| WA $=18$ | GD $=19-23$ |

## Summer ON-TRACK TARGET 41

Number - Decimals

1. Identify the value of each digit in numbers given to three decimal places and multiply and divide numbers by 10,100 and 1000 giving answers up to three decimal places.
2. Multiply one digit numbers with up to two decimal places by whole numbers.
3. Use written division methods in cases where the answer has up to two decimal places.
4. Solve problems which require answers to be rounded to specified degrees of accuracy.
Number - Percentage
5. Solve problems involving the calculation of percentages [for example, of measures, and such as $15 \%$ of 360 ] and the use of percentages for

## comparison.

6. Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.
Algebra
7. Use simple formulae
8. Generate and describe linear number sequences.
9. Express missing number problems algebraically.
10. Find pairs of numbers that satisfy an equation with two unknowns.
11. Enumerate possibilities of combinations of two variables Measurement - Converting Units
12. Solve problems involving the calculation and conversion of units of measure, using decimal notation up to three decimal places where
appropriate.
13. 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 three decimal places.
14. Convert between miles and kilometres.

Measurement - Perimeter, area and volum
15. Recognise that shapes with the same areas can have different perimeters and vice versa.
16. Recognise when it is possible to use formulae for area and volume of shapes.
17. Calculate the area of parallelograms and triangles.
18. Calculate, estimate and compare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), and standard units, including cubic cenme, mm 3 and km 3 ].
extending to other units [for example extending to oth
19. Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts. 20 Solve problems involving similar shapes where the scale factor is known or 20. Solve prob
can be found
21. Solve problems involving unequal sharing and grouping using knowledge
of fractions and multiples.

| Aut + Spr |  |
| :---: | :---: |
| $23+21=44$ statements |  |
| $80 \%$ rule of 44 |  |
| WA $=35$ | GD $=36-44$ |

## Geometry - Properties of Shape

1. Draw 2 D shapes using given dimensions and angles
2. Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons.
3 , Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.
Problem Solving ..
Statistics
3. Illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius.
4. Interpret pie charts and line graphs and use these to solve problems. 6. Construct pie charts and line graphs.

## 7. Calculate and interpret the mean as an average

## Investigations.

Use long-term assessments at the end of the school year. Use the assessment overviews, assessments from Tapestry and teacher judgements to ascertain the standard the child is working at by the end of the year. In years 2 and 6 use national tests for children and the statutory assessment framework to make end of key stage judgements.

