Maths at Claycots
Claycots Primary School

## Maths team

Ms O'Connor is our Maths Leader at Claycots


## The vision for Maths

At Claycots we aim for all pupils to develop a positive and resilient attitude towards mathematics. We ensure that every pupil is given a broad, balanced, engaging and relevant curriculum that considers the requirements of the National Curriculum and any other guidance documents.

We aim to equip children with the skills of calculation, reasoning and problem solving that they need in life, within the school day and beyond, developing an ability in the children to express themselves fluently. We want all children to experience the beauty, power and enjoyment of mathematics and develop.

## Subject Intent

At Claycots, we are committed to ensuring that all children are challenged through a rich Maths curriculum, with a high emphasis on securing understanding by carefully sequencing learning to develop pupils' fluency, mathematical reasoning and ability to solve increasingly sophisticated problems. Our maths curriculum aims to help our pupils recognise that mathematics is an interconnected subject in which we want them to be able to move fluently between different representations of mathematical ideas as well as applying their maths knowledge to science and other subjects.

## Subject Implementation

At Claycots School, we use a mastery approach focusing on the teaching of: representation \& structure, mathematical thinking, variation, fluency and coherence. As a school, our mastery approach is developing each year through our involvement in a number of projects run by the BBO Maths Hub. Lessons are planned and sequenced so that new knowledge and skills build on what has previously been taught. Teachers use White Rose Maths, NCETM and other resources to support their planning and we develop termly overviews to ensure careful sequencing of learning.

Throughout the school, teachers use pedagogical approaches which aim to ensure that all children to view mistakes and misconceptions as an important part of learning. As part of our approach to developing mathematic fluency, in each lesson, children have a times tables focus to give the opportunity to practice and improve rapid recalls of tables linked to their stage of learning. Children work towards the weekly challenge of improving their time and score and have access to their personal account of 'Times Tables Rockstar' which allows them to practice in an engaging and interactive way using an electronic device both at school and at home.

In addition to this, in each lesson, children are given the opportunity to develop their mental Maths skills to improve their efficiency in solving quick calculations. We use our school calculation policy, to ensure a consistent approach in teaching formal methods and use of the CPA approach. Our pupils are encouraged to physically represent mathematical concepts. Objects and pictures are used to demonstrate and visualise abstract ideas, alongside numbers and symbols.

- Concrete - children have the opportunity to use concrete objects and manipulatives to help them understand and explain what they are doing.
- Pictorial - children then build on this concrete approach by using pictorial representations, which can then be used to reason and solve problems.
- Abstract - With the foundations firmly laid, children can move to an abstract approach using numbers and key concepts with confidence. We ensure that the curriculum is tailored to meet the needs of each child while developing their skills and understanding at an appropriate level. Where possible, links are made with other subjects across the curriculum for children to understand the application of Maths in everyday life.


## Maths progression map

|  | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Counting | - 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 twos, fives and tens | - count in steps of 2,3 , and 5 from 0 , and in tens from any number, forward and backward | -count from Oin multiples of $4,8,50$ and 100; <br> find 10 or 100 more or less than a given number. | - count in multiples of $6,7,9,25$ and 1000 <br> -find 1000 more or less than a given number <br> count backwards through zero to include negative numbers | - Count forwards or backwards in steps of powers of 10 for any given number up to 1000000 -interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers, including through zero | -use negative numbers in context, and calculate intervals across zero |
| Place Value |  | -recognise the place value of each digit in a two-digit number -compare and order numbers from 0 <br> up to 100 ; use < , > and $=$ signs | -recognise the place value of each digit in a three digit number -compare and order numbers up to 1000 | -recognise the place value of each <br> digit in a four-digit number <br> - order and compare numbers <br> beyond 1000 <br> -round any number to the nearest <br> 10,100 or 1000 | -read, write, order and compare numbers up to 1000000 and determine the value of each digit -round any number up to 1000000 to the nearest $10,100,1000,10000$ and 100000 | -read, write, order and compare numbers up to 10000000 and determine the value of each digit -round any whole number to a required degree of accuracy |
| Representing number | -identify and represent numbers using objects and pictorial representations including the number line, \& use language of: equal to, more than, less than (fewer), most, least -read and write numbers from 1 to 20 in numerals and words -read, write and interpret mathematical statements involving addition ( + ), subtraction ( $(-)$ and equals ( $($ ) signs | -identify, represent and estimate numbers using different <br> representations, including the number line <br> -read and write numbers to at least <br> 100 in numerals and in words | -identify, represent and estimate numbers using different representations -read and write numbers up to 1000 in numerals and in words | -identify, represent and estimate numbers using different representations -read Roman numerals to $100(1$ to C) and know that over time, the numeral system changed to indude the concept of zero and place value | -read Roman numerals to 1000 (M) and recognise years written in Roman numerals <br> -recognise and use square numbers and cube numbers, and the notation for squared ( ${ }^{2}$ ) and cubed ( ${ }^{3}$ ) |  |
| Number facts ( $+/$-) | -given a number, identify one more and one less <br> -represent and use number bonds and related subtraction facts within 20 | *use place value and number facts to solve problems <br> recall and use addition and <br> subtraction facts to 20 fluently, and derive and use related facts up to 100 |  |  |  |  |
| Mental + - | -add and subtract one-digit and twodigit numbers to 20 , including zero | -add and subtract numbers using concrete objects, pictorial representations, and mentally. including: $\mathrm{TU}+\mathrm{U}, \mathrm{TU}+\mathrm{T}, \mathrm{TU}+\mathrm{TU}$ and $\mathrm{U}+\mathrm{U}+\mathrm{U}$ <br> - show that addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot | -add and subtract numbers mentally, including: $\mathrm{HTU}+\mathrm{U}, \mathrm{HTU}+\mathrm{T}$ and $\mathrm{HTU}+\mathrm{H}$ |  | -add and subtract numbers mentally with increasingly large numbers | -perform mental calculations, <br> including with mixed operations and large numbers |

## How we measure progress

At Claycots we use termly assessments where appropriate to help teachers gather a deeper understanding of their pupil's existing and developing knowledge and skills. This is used by teachers as a diagnostic tool to adapt teaching to meet the needs of all children.

We measure pupil progress on a termly basis and at the end of the year, the expectation is that children achieve Age Related Expectations (ARE) for their year group. Some children may have progressed further and achieve Greater Depth (GD). Those pupils who have been identified as having gaps in their knowledge receive appropriate support and intervention where possible, inside and outside of the usual classroom Maths lesson.
By the end of Year 6, children will have developed a range of efficient skills that can be used to calculate effectively, they will be fluent in the fundamentals of Maths with a conceptual understanding and he ability to recall and apply key facts accurately.

## Visits and experiences



Educational Financial lessons
(EYFS, KS1 \& KS2)


STEMSCIENCE, TECHNOLOGY, ENGINEERING \& MATHEMATICS


STEM Lego Workshop (Key Stage 2)

Weekly Magical Maths Sessions (KS1/2 after school)

## Examples of learning KS1



Year 2


## Examples of learning Lower KS2

Year 3


Year 4


## Examples of learning Upper KS2

Year 5


Year 6


Practical learning!


## Pupil voice



Maths in Year 5 is challenging, and it is very fun because we get to learn from our mistakes and use lots of different equipment. -Year 5, Town Hall The teachers help us
because they explain things very clearly. -Year 3, Britwell

## Maths Overviews






## Year 3

## Long




## Number

Fractions

Week 1-2
?umbuer



## Year 5

## Long

 term planning| Number | Number |
| :--- | :--- |
| Place Value |  <br> Week 1-3 |
| Subtraction |  |
| Week 4-5 |  |



## Measurement



## Consolidation Week 1





| Statistics | Geometry |
| :--- | :--- |
| Statistics | Shape |
| week 11-12 | Week1-2 |
|  | Sumpmep |



Consolidation, problem solving and themed projects Week 7-12

## Maths Vocabulary Progression Map <br> Claycots School

| PLACE VALUE, NUMBERS AND COUNTING |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Numbers 0-20 | Counting | Numbers 20 to 100 count in steps of | Numbers up to 1000 | Negative number | Count across zero | Calculate intervals across zero |
| Ones | Ones | Twos | Count in multiples of | Positive number above/below zero | Numbers up to 1 million | Numbers up to 10 million |
| Count to | Tens | Fives | Fours | Minus 1 etc. | Five-digit number | Seven-digit number |
| Count on | One more | Tens | Eights | Decimal number | Six-digit number | Millions |
| Count from | One less | Threes | Fifties | Decimal place | Tens of thousands |  |
| Number | Equal to | Compare | Three-digit number hundreds | Tenths column | Hundreds of thousand |  |
| More, less | More than | Order | Hundreds block | Hundredths column decimal point | Three decimal places thousandths |  |
| Odd, even | Less than | <less than | Hundreds column | One decimal place | column |  |
| Few | Fewer | $>$ more than | Roman numerals | Two decimal places | C to m $\mathrm{m}^{\text {Powers }} 10$ |  |
| Big | Ordering | Represent | Ascending order descending order | Four-digit number thousands column | Millions |  |
| Small | Odd, even | Representation | Ascending order descending order | integer |  |  |
| Ordinal numbers (1 $1^{\text {st }}$ ) | Numbers one - twenty | Estimate |  | Numbers up to 10,000 |  |  |
| Before, after, next between Part | Forwards Backwards | Partition Number facts |  |  |  |  |
| Whole | Value | Sequence |  |  |  |  |
| Digit | Number bonds | Two-digit number |  |  |  |  |
|  | Column Twos | Greatest value Least value |  |  |  |  |
|  | Fives | Greatest |  |  |  |  |
|  |  |  |  |  |  |  |
| ( ESTIMATING AND ROUNDING |  |  |  |  |  |  |
|  |  |  | Year 3 | Year 4 | Year 5 | Year 6 |
| Guess how many <br> Estimate <br> Nearly <br> Close to <br> About the same as <br> Just over <br> Just under <br> Too many <br> Too few <br> Enough <br> Not enough | Roughly | Exact | Approximate Approximately | Round <br> Rounding <br> round up <br> Round down <br> Nearest 10 <br> Nearest 100 <br> Nearest 1000 <br> Nearest whole number | Nearest 10,000 Nearest 100,000 Nearest tenth To one decimal place | Nearest million Nearest hundredth To two decimal places Degree of accuracy |
|  |  | Near to |  |  |  |  |
|  |  | Nearer to |  |  |  |  |
|  |  | Closer to |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
|  |  |  |  |  |  |  |
| ADDITION AND SUBTRACTION |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Add | + sign | Method <br> Exchange <br> Combined <br> Calculate <br> Solve <br> Calculation <br> Sums <br> Inverse <br> Equal to each other <br> Strategy <br> Number line <br> Jumps <br> Tens <br> Ones <br> Product <br> Smaller <br> Greater | Carrying <br> Exchanging <br> Expanded <br> Compact <br> Commutative law <br> Find the difference <br> Column addition column subtraction <br> inverse operations <br> Mental operations | Near multiple Distributive law Column addition column subtraction inverse operations mental operations two-step problem | Column addition column subtraction inverse operations mental operations rounding Accuracy Multi-step problems | Four operations |
| More | Addition |  |  |  |  |  |
| Make | Put together |  |  |  |  |  |
| Total Altogether | Sum ${ }_{\text {Near double }}$ |  |  |  |  |  |
| Altogether Double | Near double |  |  |  |  |  |
| One more | Missing number |  |  |  |  |  |
| Two more | Number bonds |  |  |  |  |  |
| How many more to... | = equals sign |  |  |  |  |  |
| How many more is... | Number sentence |  |  |  |  |  |
| Take away | Sign Operation |  |  |  |  |  |
| How many are left... | Total |  |  |  |  |  |
| How many have gone... | Subtraction |  |  |  |  |  |
| One | Take away |  |  |  |  |  |
| Less | Distance between |  |  |  |  |  |
| Two less How many fewer is... | Difference between Equals |  |  |  |  |  |
| How many fewer is... | Equals More than |  |  |  |  |  |
|  | Greater than |  |  |  |  |  |
|  | Less than |  |  |  |  |  |
|  | Counting forwards |  |  |  |  |  |


|  | Counting backwards |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| MULTIPLICATION AND DIVISION |  |  |  |  |  |  |
| EYFS $\quad$ Year 1 |  | Year 2 | Year 3 Year 4 |  | Year 5 | Year 6 |
| Double <br> Half <br> Halve <br> Pair <br> Sharing <br> Share out <br> Groups | Grouping <br> Sharing multiplying dividing <br> Doubling <br> Arrays <br> Number patterns count in twos count in fives count in tens | Lots of <br> X sign <br> Multiplying <br> Dividing <br> $\div$ sign <br> Share equally <br> Equal groups <br> Odd <br> Even <br> Multiple of <br> Once, twice, three times, ten times. <br> Repeated addition <br> Row <br> Column <br> Multiplication fact <br> Calculate <br> Solve <br> Product <br> Calculation <br> Commutative <br> Arrays <br> Mental methods inverse operations | Partitioning <br> Column method <br> Short multiplication <br> Short division <br> Expanded <br> Scaling <br> Correspondence <br> Commutative law <br> Mental method integers Divisor <br> Left over | Factor pair <br> Commutativity <br> Short multiplication <br> Short division <br> Distributive law <br> Mental method inverse operations <br> Integers <br> Short division <br> Short multiplication <br> Factor <br> Factor of <br> Dividend <br> Divisible by | Long multiplication expanded <br> Long multiplication compact <br> Square number <br> Squared, $x^{2}$ <br> Cube number <br> Cubed, $x^{3}$ <br> Square root <br> Cube root <br> Multiples <br> Factors <br> Factor pairs <br> Common factors <br> Prime numbers <br> Prime factors <br> Composite (nonprime) numbers <br> Rates | Order of operations <br> Common multiples <br> Scale factor <br> Factor pairs <br> Common factors <br> Prime numbers <br> Prime factors <br> Composite (nonprime) numbers Remainders <br> Common multiples <br> Brackets |
| FRACTIONS, DECIMALS AND PERCENTAGES |  |  |  |  |  |  |
| EYFS |  | Year 2 Year 3 |  | Year 4 | Year 5 | Year 6 |
| Half Part Whole | A half Equal parts A quarter A whole | A half <br> A quarter <br> A whole <br> Equal parts <br> A third <br> Two quarters <br> Three quarters <br> Equivalence | Tenths <br> Equal parts <br> Fractions <br> Unit fractions <br> Non -unit fractions Denominator <br> Numerator <br> A half <br> A quarter <br> A whole <br> Equal parts <br> A third <br> Two quarters <br> Three quarters Equivalence | Tenths <br> Hundredths <br> Equal parts <br> Fractions <br> Unit fractions <br> Non -unit fractions Denominator <br> Numerator <br> Equivalence <br> Equivalent fractions <br> Decimal number <br> Decimal point | Unit fractions <br> Non -unit fractions <br> Mixed number fractions <br> Improper fractions <br> Proper fractions <br> Denominator <br> Numerator <br> Equivalence <br> Equivalent fractions <br> Decimal number <br> Decimal point <br> Per cent <br> Percentage | Unit fractions <br> Non -unit fractions <br> Mixed number fractions <br> Improper fractions <br> Proper fractions <br> Denominator <br> Numerator <br> Equivalence <br> Equivalent fractions <br> Decimal number <br> Decimal point <br> Per cent <br> Percentage |
| MEASURE: LENGTH/DISTANCE, TIME, MASS, CAPACITY/VOLUME, MONEY, TEMPERATURE |  |  |  |  |  |  |
| EYFS |  | Year 2 | Estimate Year 3 | Year 4 | Estimate Year 5 | Estimate Year 6 |
| Measure | Length | Estimate |  | Estimate |  |  |
| Size | Height | Length | MeasureLength | MeasureLength | Measure | MeasureMetric measurements |
| Compare | Compare | Height |  |  | Metric measurements Imperial units |  |
| Guess | Long Short | Meters | Height | Height | Inches | Imperial unitsInches |
| Estimate | Longer | Centimetres | Meters | Height Meters | Pounds |  |
| Enough/Not enough | Shorter | Mass Kilograms | Centimetres | Centimetres Millimetres | Pints Length | Pounds Pints |
| Too many/Too few | Double | Grams | Millimetres Mass | Mass | Height | Pints <br> Miles |
| Tall/Taller/Tallest | Half | Temperature | Kilograms | Kilograms | Meters | LengthHeight |
| Long/Longer/Longest | Mass | Capacity | Grams ${ }^{\text {Grams }}$ |  | Centimetres |  |
| Short/Shorter/Shortest | Weight | Litres | Temperature <br> Capacity |  | Millimetres | Meters |
| Time Days of the week | Heavy Light | Millilitres Rulers |  |  | Mass <br> Kilograms | Centimetres Millimetres |
| Morning | Heavier than | Scales | Millilitres Millilitres |  | Grams | Mass Kilograms |
| Afternoon | Lighter than | Thermometers | Rulers Rulers <br> Scales Scales |  | Temperature |  |
| Evening | Capacity | Measuring vessels |  |  | Capacity | Grams |
| Night | Volume | Compare | Thermometers | Thermometers | Litres |  |
| Times of the day Today, yesterday, today | ${ }^{\text {Full }}$ | Order Volume | Compare ${ }^{\text {Cosser }}$ ( Converting measurements Perimeter |  | Millilitres Rulers | Capacity |
| Toour, yesterday, today | Half full | Pounds | Order Rectilinear figure |  |  | Leles |
| Watch | Quarter full | Pence | Volume ${ }^{\text {area }}$ |  | Thermometers |  |
| Clock | Time | Coins | Pounds | Pounds | Measuring vessels | Rulers Scales |
| Hands | Quicker | Money | Pence ${ }^{\text {Pence }}$ |  | Converting | Scales <br> Thermometers |
| O'Clock Weight | Slower Earlier | Change Sequence | Coins <br> Money |  | Measurements Perimeter | Converting measurements Perimeter Rectilinear figure |
| Weight Balances | Earlier | Sequence Time | Money Change | Digital clocks Hours | Perimeter Rectilinear figure |  |


| Heavy/Heaviest/Heavier Light/Lightest/Lighter <br> Full/Half full <br> Empty <br> Container <br> Money <br> Coin <br> Penny <br> Notes <br> Pence <br> Pounds <br> Price/cost/sell/buy/spent | Hours <br> Minutes <br> Seconds <br> Coins <br> Notes <br> Money <br> Before <br> After <br> Next <br> First <br> Today <br> Yesterday <br> Tomorrow <br> Morning <br> Afternoon <br> Evening <br> Ruler <br> Weighing scales <br> Days of the week <br> Months of the year <br> Hour <br> O'clock <br> Half past | Clock <br> Five minutes <br> Minutes <br> Quarter past <br> Quarter to <br> Half past <br> O'clock <br> Hour <br> Day | Analogue clock <br> Roman Numerals <br> Seconds <br> Minutes <br> Hours <br> O'clock <br> A.M P.M <br> Morning <br> Afternoon <br> Noon <br> Midnight <br> Leap year <br> Each month of the year | Minutes Seconds Years Months Weeks Days | Irregular shapes <br> Area <br> Pounds <br> Pence <br> Analogue clocks <br> Digital clocks <br> Hours <br> Minutes <br> Seconds <br> Years <br> Months <br> Weeks <br> Days <br> Scaling | Area <br> Pounds <br> Pence <br> Analogue clocks <br> Digital clocks <br> Hours <br> Minutes <br> Seconds <br> Years <br> Months <br> Weeks <br> Days <br> Scaling |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| GEOMETRY: GENERAL |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Shape <br> Pattern <br> Hollow <br> Solid <br> Size <br> Bigger, Larger, Smaller, Symmetrical <br> Pattern <br> Repeating Pattern | Point Pointed Identify | Symmetry <br> Symmetrical <br> Mirror Line <br> Reflection <br> Fold <br> Horizontal <br> Vertical <br> Diagonal | Parallel Perpendicular | Construct Draw Complete Classify |  |  |
| GEOMETRY: POSITION AND DIRECTION |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Position <br> Over <br> Under <br> Above <br> Below <br> Top <br> Bottom <br> Side On <br> In <br> Outside <br> Inside <br> Around <br> In Front <br> Behind <br> Front <br> Back <br> Before <br> After <br> Beside <br> Next To <br> Opposite <br> Left <br> Right <br> Up <br> Down <br> Forwards <br> Backwards <br> Sideways <br> Across <br> Towards <br> Away From | Whole turn Half turn Quarter turn Left <br> Right <br> Top <br> Middle <br> Bottom <br> On top of <br> In front of <br> Above <br> Between <br> Around <br> Near <br> Close | Patterns <br> Sequences <br> Straight line <br> Rotation <br> Turn <br> Right angles <br> Position <br> Direction <br> Movement <br> Whole turn <br> Half turn <br> Quarter turn <br> Left <br> Right |  | Coordinates <br> Quadrant <br> Left <br> Right <br> Up <br> Down <br> Axes <br> X-Axis <br> Y-Axis <br> Axes <br> Translation <br> Translate <br> Units <br> Plot <br> Points <br> Vertices <br> Vertex | Coordinates <br> Quadrants <br> Vertices <br> Vertex <br> Left <br> Right <br> Up <br> Down <br> Axes <br> X-Axis <br> Y-Axis <br> Translation <br> Translate <br> Reflection <br> Horizontal <br> Vertical <br> Translation <br> Plot <br> Points <br> Vertices <br> Vertex | Coordinates Coordinate plane <br> Quadrant <br> Left Right <br> Up Down <br> Axes <br> Reflection <br> Translation <br> Opposite |


| GEOMETRY: PROPERITES OF SHAPE |  |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Cube <br> Sphere <br> Cone <br> Face <br> Edge <br> 3D <br> Corners <br> Circle <br> Triangle <br> Square <br> Rectangle <br> 2D <br> Flat <br> Corners <br> Sides <br> Curved <br> Round <br> Pointy | 2D shapes <br> Rectangle <br> Square <br> Circle <br> Triangle <br> 3D shapes <br> Cubes <br> Cuboids <br> Pyramids <br> Spheres <br> Straight <br> Curved <br> Flat <br> Corners <br> Sides | 2D shapes Properties of shapes Sides <br> Line of symmetry <br> Vertical line <br> 3D shape <br> Edges <br> Vertices <br> Vertex <br> Faces <br> Rectangle <br> Square <br> Circle <br> Triangle <br> Cube <br> Cuboid <br> Pyramid <br> Sphere | 2D shapes <br> Properties of shapes <br> Sides <br> Line of symmetry <br> Vertical line <br> Horizontal line <br> Perpendicular line <br> Parallel lines <br> 3D shape <br> Edges <br> Vertices <br> Vertex <br> Faces <br> Rectangle <br> Square <br> Circle <br> Triangle <br> Cube <br> Cuboid <br> Pyramid <br> Sphere <br> Angle <br> Right angle <br> Acute angle <br> Obtuse angle <br> Polygon | 2D shapes <br> Properties of shapes <br> Sides <br> Line of symmetry <br> Vertical line <br> Horizontal line Perpendicular line <br> Parallel lines <br> 3D shape <br> Edges <br> Vertices <br> Vertex <br> Faces <br> Rectangle <br> Square <br> Circle <br> Triangle <br> Isosceles triangle <br> Equilateral triangle <br> Scalene triangle <br> Cube <br> Cuboid <br> Pyramid <br> Sphere <br> Angle <br> Right angle <br> Acute angle <br> Obtuse angle <br> Protractor <br> Polygon <br> Quadrilateral <br> Parallelogram Rhombus <br> Trapezium <br> Regular polygon <br> Irregular polygon | 2D shapes <br> Properties of shapes <br> Sides <br> Line of symmetry <br> Vertical line <br> Horizontal line Perpendicular line <br> Parallel lines <br> 3D shape <br> Edges <br> Vertices <br> Vertex <br> Faces <br> Rectangle <br> Square <br> Circle <br> Triangle <br> Isosceles triangle <br> Equilateral triangle <br> Scalene triangle <br> Cube <br> Cuboid <br> Pyramid <br> Sphere <br> Angle <br> Right angle <br> Acute angle <br> Obtuse angle <br> Reflex angle <br> Protractor <br> Degrees <br> Polygon <br> Quadrilateral <br> Parallelogram <br> Rhombus <br> Trapezium <br> Regular polygon <br> Irregular polygon <br> Diagonal | 2D shapes <br> Dimension <br> Properties of shapes <br> Sides <br> Line of symmetry <br> Vertical line <br> Horizontal line Perpendicular line <br> Parallel lines <br> 3D shape <br> Net <br> Edges <br> Vertices <br> Vertex <br> Faces <br> Rectangle Square Circle Radius <br> Diameter <br> Circumference <br> Isosceles triangle <br> Equilateral triangle <br> Scalene triangle <br> Cube Cuboid <br> Pyramid Sphere <br> Angle <br> Right angle <br> Acute angle <br> Obtuse angle <br> Reflex angle <br> Protractor <br> Degrees <br> Polygon <br> Quadrilateral <br> Parallelogram <br> Rhombus <br> Trapezium <br> Regular polygon Irregular polygon <br> Diagonal |
| STATISTICS |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Count Sort Vote Group List | Pictogram <br> Tally chart <br> Block diagram Table | Pictogram <br> Tally chart <br> Bar charts <br> Table <br> Two-way tables <br> Frequency | Pictogram <br> Tally chart <br> Bar chart <br> Table <br> Time graph Scale | Line graph Timetables | Pie chart Line graph Average Mean variables Data |
| ALGEBRA |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Missing number | Inverse Arrange Combine Combinations | Integer scaling | Express Formula |  | Formulae Algebra Unknown values Variable Equivalent expression |
| RATIO AND PROPORTION |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  |  |  | Proportion in every for every (linked to fractions) | Scaling | Proportion <br> Ratio <br> Recipe <br> Pie chart <br> Scale drawing <br> Scale factor |

