

Mathematics
Progression in Skills at Fawkham CEP School


Place Value: Represent

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 1-6 | Term 1, 2, 3 | Term 1 | Term 1 | Term 1 | Term 1 | Term 1 |
| -identify <br> representations 1-10 <br> -record using marks <br> they can explain <br> -match number names <br> to numerals and quantities <br> -write the correct numeral for a given number <br> -select the correct numeral to represent $1-5$, then 1-10 objects -understand that if a 5 frame is full there is 5 -understand 0 is used represented 'nothing there' or 'all gone' -explore different compositions of numbers | -identify and represent numbers using objects -identify and represent numbers using pictorial representations -read and write numbers to 100 in numerals -read and write numbers from 120 in numerals and words | -read and write numbers to at least 100 in numerals -read and write numbers to at least 100 in words -identify, represent and estimate numbers using different representations, including the number line | -identify, represent and estimate numbers using different representations -read and write numbers up to 1000 in numerals -read and write numbers up to 1000 in words | -identify, represent and estimate numbers using different representations -read Roman numerals to 100 -know that over time, the numeral system changed to include the concept of zero and place value | -read and write numbers up to at least 1,000,000 <br> -determine the value of each digit in a number up to at least 1,000,000 -read Roman numerals to 1000 and recognise years written in Roman numerals | -read and write numbers up to 10,000,000 (10 million). <br> -determine the value of each digit up to at least 10,000,000 |

## Mathematics

Progression in Skills at Fawkham CEP School


## Place Value: Use and Compare

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 1-6 | Term 1, 2, 3 | Term 1 | Term 1 | Term 1 | Term 1 | Term 1 |
| -match objects which are the same -sort objects based on attributes such as colour, shape, size -come up with their own criteria for sorting objects -compare and sort collections of amounts -compare quantities of non-identical objects according to size -use language of more and fewer than -compare groups up to 10 -children recognise that all numbers are made up of smaller numbers | -use language of: equal to, more than, less than (fewer), most, least -given a number, identify one more and one less | -recognise the place value of each digit in a two-digit number (tens, ones) -compare and order numbers from 0 up to 100 -use <, > and = signs | -recognise the place value of each digit in a three-digit number (hundreds, tens, ones) <br> -compare and order numbers up to 1000 | -find 1000 more or less than a given number -recognise the place value of each digit in a four-digit number (thousands, hundreds, tens and ones) -order and compare numbers beyond 1000 | -order and compare numbers to at least 1,000,000 | -order and compare number up to at least 10,000,000 |

## Mathematics

Progression in Skills at Fawkham CEP School

Place Value: Solve Problems, Rounding and Negative Numbers

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 1-6 | Term 1, 2, 3 | Term 1 | Term 1 | Term 1 | Term 1 | Term 1 |
| -use place value to solve problems | -use place value and number facts to solve problems | -use place value and number facts to solve problems | -solve number problems and practical problems involving these ideas | -round any number to the nearest 10 , 100 or 1000 -solve number and practical problems that involve all of the above and with increasingly large positive numbers | -interpret negative numbers in context -round any number up to $1,000,000$ to the nearest 10, 100, 1000, 10,000 and 100,000 -solve number problems and practical problems that involve all of the above | -round any whole number to a required degree of accuracy <br> -use negative numbers in context and calculate intervals across zero -solve number and practical problems that involve all of the above |

Mathematics
Progression in Skills at Fawkham CEP School

Addition and Subtraction: Recall, Represent and Use

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 |  |
| -explore number bonds to 10 using real objects | -read, write and interpret mathematical statements, involving addition (+), subtraction (-) and equals (=) signs -represent and use number bonds and related subtraction facts within 20 -recall and use addition and subtraction facts within 10 fluently | -recall and use addition and subtraction facts across 10 fluently -derive and use related facts up to 100 -show that addition of two numbers can be done in any order -show that subtraction of one number from another is not commutative -recognise and use the inverse relationship between addition and subtraction -use the inverse to check calculations -use the inverse to solve missing number problems | - estimate the answer to a calculation -use inverse operations to check answers | -estimate and use inverse operations to check answers to a calculation | -use rounding to check answers to calculations and determine, in the context of the problem, levels of accuracy |  |

## Addition and Subtraction: Calculations

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 1-6 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 |
| -identify which number is one more or one less than a given number within 20 -recognise patterns when counting one more or one less -add and subtract two single digit numbers using quantities -add and subtract two single digit numbers using objects -count back and count on to find the answer -use language involved with addition and subtraction -children combine two groups and find how many altogether -use objects to see a quantity can be changed by adding more or taking items away | -add and subtract one-digit and two-digit numbers to 20, including zero | -add and subtract numbers using concrete objects -add and subtract numbers using pictorial representations -add and subtraction mentally -add and subtract a twodigit number and ones -add and subtract a twodigit number and tens -add and subtract two two-digit numbers -add three one-digit numbers | -add and subtract numbers mentally including: three-digit number and ones, three-digit number and tens, three-digit number and hundred -add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction | -add and subtract numbers with up to 4 digits <br> -use the formal written methods of columnar addition and subtraction (where appropriate) | -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 | -perform mental calculations, including with mixed operations and large numbers -use knowledge of the order of operations to carry out calculations involving the four operations |

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Addition and Subtraction: Solve Problems

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 1-6 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 |
| -solve problems that involve all of the above | -solve one-step problems that involve addition and subtraction -use concrete objects and pictorial representations to solve problems -solve missing number problems $(7=-9)$ <br> -solve problems that involve all of the above | -solve problems with addition and subtraction using concrete objects and pictorial representations, including those involving numbers, quantities and measures -solve problems with addition and subtraction, applying their increasing knowledge of mental and written methods -solve problems that involve all of the above | -solve problems including missing number problems -solve problems using number facts -solve problems using place value -solve problems using more complex addition and subtraction -solve problems that involve all of the above | -solve addition and subtraction twostep problems in contexts -decide which operations and methods to use and why -solve problems that involve all of the above | -solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why -solve problems that involve all of the above | -solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why -solve problems that involve all of the above |

## Mathematics

Progression in Skills at Fawkham CEP School

Multiplication and Division: Recall, Represent and Use

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Term 2, 3 | Term 2, 3 | Term 2, 3 | Term 1, 2 | Term 1, 2 |
|  |  | -recall and use multiplication and division facts for the 2,5 and 10 multiplication tables -recognise odd and even numbers -show that multiplication of two numbers can be done in any order -show that division of one number by another is not commutative | -recall and use multiplication and division facts for the 3,4 and 8 multiplication tables | -recall <br> multiplication and division facts for multiplication tables up to $12 \times 12$ -use place value, known and derived facts to multiple and divide mentally -multiply by 0 and 1 -divide by 1 -multiply together three numbers -recognise and use factor pairs -understand commutativity in mental calculations | -identify multiples and factors, including finding all factor pairs of a number and common factors of two numbers -know and use the vocabulary of prime numbers, prime factors and composite (nonprime) numbers -establish whether a number up to 100 is prime and recall prime numbers up to 19 -recognise and use square numbers and cube numbers and the notation for squared and cubed | -identify common factors, common multiples and prime numbers -use estimation to check answers to calculations and determine, in the context of the problem, an appropriate degree of accuracy |

Mathematics
Progression in Skills at Fawkham CEP School

Multiplication and Division: Calculations

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 5, 6 |  | Term 2, 3 | Term 2, 3 | Term 2, 3 | Term 1, 2 | Term 1, 2 |
| -understand that a pair is 2 and match to make pairs -understand double means 'twice as many' -build doubles using objects -double quantities and objects -compare doubles and non-doubles -halve quantities and objects by sharing -share objects and quantities -check that the items are shared equally and that everyone has the same -recognise and make equal groups -begin to understand that quantities which can be shared with no items left over are even -notice odd and even structures on number shapes |  | -calculate mathematical statements for multiplication and division within the multiplication tables -write calculations using the multiplication ( x ), division and equals (=) signs | -write and calculate mathematical statements for multiplications and division using the multiplication tables they know, including two-digit numbers times one digit numbers, using mental and progressing to formal written methods | -multiply two-digit and three-digit numbers by a onedigit number using formal written layout -use the distributive law to multiply two digit numbers by one digit | -multiply numbers up to 4 digits by a one or twodigit number using a formal written method, including long multiplication for twodigit numbers -multiply and divide numbers mentally drawing upon known facts -divide numbers up to 4 digits by a one-digit number using the formal written method of short division and interpret remainders appropriately for the context -multiply and divide whole numbers and those involving decimals by 10,100 and 1000 | -multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication -divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division -when dividing, interpret remainders 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, interpreting remainders according to the context -multiply and divide whole numbers and those involving decimals by 10,100 and 1000 -use knowledge of the order of operations to carry out calculations involving the four operations |

## Mathematics

Progression in Skills at Fawkham CEP School

## Multiplication and Division: Solve Problems

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 5, 6 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 | Term 1, 2 |
| -begin to solve problems involving doubling, halving and sharing | -solve one-step problems involving multiplication and division by calculating the answer using concrete objects, pictorial representations and arrays WITH THE SUPPORT OF A TEACHER | -solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods and multiplication and division faces, including problems in context -solve problems that involve all of the above | -solve problems including missing number problems, involving multiplication and division - solve positive integer scaling problems and correspondence problems in which $n$ objects are connected to m objects -solve problems that involve all of the above | -solve problems involving <br> multiplying and adding -solve integer scaling problems -solve harder correspondence problems such as n objects are connected to m objects -solve problems that involve all of the above | -solve problems involving multiplication and division including using their knowledge of factors and multiples, squares and cubes -solve problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates -solve problems involving the four operations and a combination of these, including understanding the meaning of the equals sign -solve problems that involve all of the above | -solve problems involving addition, subtraction, multiplication and division -solve problems that involve all of the above |

## Mathematics

Progression in Skills at Fawkham CEP School

Fractions: Recognise and Write

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  | Term 4 | Term 4 | Term 3, 4 | Term 3, 4 | Term 2 |  |
|  | -recognise, find and name a half as one of two equal parts of an object or shape -recognise, find and name a half of a quantity -recognise, find and name a quarter as one of four equal parts of an object or shape -recognise, find and name a quarter of a quantity | -recognise, find, name and write fractions $1 / 3$, $1 / 4,2 / 4$ and $3 / 4$ of a length, shape, set of objects -recognise, find, name and write fractions $1 / 3$, $1 / 4,2 / 4,3 / 4$ of a quantity | -count up and down in tenths -recognise that tenths arise from dividing an object into 10 equal parts and in dividing onedigit numbers or quantities by 10 -recognise, find and write fractions of a discrete set of objects: unit fractions and nonunit fractions with small denominators -recognise and use fractions as numbers: unit fractions and nonunit fractions with small denominators | -count up and down in hundredths -recognise that hundredths arise when dividing an object by one hundred and dividing tenths by ten | -identify, name and write equivalent fractions of a given fraction, represented visually, including tenths and hundredths -recognise mixed numbers and improper fractions and convert from one form to the other and write mathematical statements $>1$ as a mixed number (e.g. 2/5 $+4 / 5=6 / 5=11 / 5$ ) |  |





|  | Mathematics <br> Progression in Skills at Fawkham CEP School |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Fractions, Decimals and Percentages: Solve Problems |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  | Term 4 | Term 4 | Term 3, 4 | Term 3, 4, 5 | Term 2, 3 | Term 2, 3 |
|  | -solve problems involving all of the above | -solve problems involving all of the above | -solve problems that involve all of the above | -solve problems involving increasingly harder fractions to calculate quantities -solve simple measure and money problems involving fractions and decimals to two decimal places -solve problems that involve all of the above | -solve problems involving number up to three decimal places -solve problems which require knowing percentage and decimal equivalents of $1 / 2,1 / 4,1 / 5,2 / 5,4 / 5$ and those fractions with a denominator of a multiple of 10 or 25 -solve problems that involve all of the above | -solve problems which require answers to be rounded to specified degrees of accuracy -solve problems that involve all of the above |




## Measurement: Using Measures

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 5, 6 | Term 3, 6 | Term 3, 6 | Term 3, 4 | Term 3, 4 | Term 3, 4 | Term 3, 4 |
| -use everyday language to talk about size, weight, capacity, distance -use everyday language to compare and order quantities and objects according to size <br> -compare and order quantities according to mass (heavy, heavier, light, lighter) -compare and order capacity using language such as full, empty -use specific mathematical vocabulary to compare length and height (tall, short) | -measure and begin to record lengths and heights <br> -measure and begin to record mass/weight -measure and begin to record capacity and volume -measure and begin to record time (hours, minutes, seconds) | -choose and use appropriate standard units to estimate and measure length and height in any direction, temperature and capacity -choose and use appropriate standard units to estimate and measure to the nearest appropriate unit using rulers, scales, thermometers and measuring vessels -compare and order lengths, mass, volume/capacity -use <, > and = to record results of comparisons | -measure, compare, add and subtract lengths ( $\mathrm{m} / \mathrm{cm} / \mathrm{mm}$ ) -measure, compare, add and subtract mass (kg/g) -measure, compare, add and subtract volume/capacity ( $1 / \mathrm{ml}$ ) | -convert between different units of measure (e.g. km to m , hour to minute) -estimate, compare and calculate different measures | -convert between different units of metric measure (km and $\mathrm{m}, \mathrm{cm}$ and $\mathrm{m}, \mathrm{cm}$ and $\mathrm{mm}, \mathrm{g}$ and $\mathrm{kg}, \mathrm{l}$ and ml ) -understand and use approximate equivalences between metric units and common imperial units such as inches, pounds and pints | -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 of measure and vice versa, using decimal notation up to three decimal places -convert between miles and km |



## Mathematics

## Progression in Skills at Fawkham CEP School

Measurement: Money

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 |  |
| :--- | :--- | :--- | :--- | :--- | :---: | :---: |
| Term 1-6 | Term 1, 2 | Term 1, 2 | Term 5 | Term 5 |  |  |
| -use everyday <br> language to talk about <br> money to compare <br> quantities and objects | -recognise and <br> know the value of <br> difference <br> denominations of <br> coins and notes | -recognise and use <br> symbols for pounds (£) <br> and pence (p) <br> -combine amounts to <br> make a particular value <br> -find combinations of <br> coins that equal the same <br> amounts of money | -add and subtract <br> amounts of money <br> to give change, using <br> both $£$ and p in <br> practical contexts | -estimate, compare <br> and calculate <br> different measures, <br> including money in <br> pounds and pence |  |  |



## Measurement: Time

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 1, 2 | Term 5 | Term 5 | Term 5 | Term 5 |  | Term 3, 4 |
| -use everyday <br> language to talk about time (positional language, class routines) -children talk about night and day and use this language to describe when events happen -begin to order and sequence events -describe significant events in their lives and talk about things they are looking forward to | -sequence events <br> in chronological <br> order using <br> language <br> -recognise and <br> use language <br> relating to dates, including days of the week, weeks, months and years -to tell the time to the hour and half past the hour -draw the hands on a clock to show the hour and half past the hour | -compare and sequence intervals of time -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 -tell and write the time to five minute intervals (including quarter past/to the hour) | -tell and write the time from an analogue clock, including using Roman numerals, and 12-hour and 24-hour clocks -estimate and read time with increasing accuracy to the minute -record and compare time in terms of second, 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 <br> -compare durations of events | -read, write and convert time between analogue and digital 12 and 24-hour clocks |  | -use, read, write and convert between standard units, converting measurements of time from a smaller unit of measure to a larger unit, and vice versa |



## Mathematics

Progression in Skills at Fawkham CEP School


Measurement: Perimeter, Area and Volume

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Term 3 | Term 3 | Term 3, 4 | Term 3, 4 |
|  |  |  | -measure the perimeter of simple 2D shapes | -measure and calculate the perimeter of a rectilinear figure (including squares) in cm and m -find the area of rectilinear shapes by counting squares | -measure and calculate the perimeter of composite rectilinear shapes in cm and m -calculate and compare the area of rectangles (including squares) -use standard units, square $\mathrm{cm}(\mathrm{cm} 2)$ and square $m(m 2)$ -estimate the area of irregular shapes -estimate volume and capacity (e.g. using cubes and water) | -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 cm (cm3) and cubic meters (m3) and extending to other units (e.g. mm3 and km3) |


|  | Mathematics <br> Progression in Skills at Fawkham CEP School |  |  |  |  |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Measurement: Solve Problems |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Term 1-6 | Term 1, 2, 3, 5, 6 | Term 1, 2, 3, 5, 6 | Term 3, 4, 5 | Term 3, 4, 5 | Term 3, 4 | Term 3, 4 |
| -solve problems that involve all of the above | -compare, describe and solve practical problems for lengths and heights -compare, describe and solve practical problems for mass/weight -compare, describe and solve practical problems for capacity and volume -compare, describe and solve practical problems for time -solve problems that involve all of the above | -solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change. <br> -solve problems that involve all of the above | -solve problems that involve all of the above | -solve problems involving converting from hours to minutes, minutes to second, years to months, weeks to days -solve problems that involve all of the above | -use all four operations to solve problems involving measure (e.g. length, mass, volume, money) using decimal notation, including scaling -use all four operations to solve problems involving measures (money) -solve problems involving converting between units of time -solve problems that involve all of the above | -solve problems involving calculation and conversion of units of measure, using decimal notation up to three decimals places where appropriate -solve problems that involve all of the above |

Mathematics
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Geometry: 2D Shapes

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 3, 4, 5, 6 | Term 4 | Term 4 | Term 6 | Term 6 | Term 5 | Term 5 |
| -recognise shapes on everyday items inside and outside -use mathematical language to describe 2D shapes -explore characteristics of 2D shapes -select a particular named shape -create their own 2D shapes -explore and investigate relationships between numbers and shapes | -recognise and name common 2D shapes | -identify and describe the properties of 2D shapes -identify number of sides on a shape <br> -identify line symmetry in a vertical line -identify 2D shapes on the surface of 3 D shapes (e.g. a circle on a cylinder) -compare and sort common 2D shapes and everyday objects | -draw 2D shapes | -compare and classify geometric shapes, including quadrilaterals ad triangles, based on their properties and sizes <br> -identify lines of symmetry in 2D shapes presented in different orientations | -distinguish between regular and irregular polygons based on reasoning about equal sides and angles -use the properties of rectangles to deduce related facts and find missing lengths and angles | -draw 2D shapes using given dimensions and angles <br> -compare and classify geometric shapes based on their properties and sizes <br> illustrate and name parts of circles, including radius, diameter and circumference and know that the diameter is twice the radius |



Geometry: Angles and Lines

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  |  | Term 6 | Term 6 | Term 5 | Term 5 |
|  |  |  | -recognise angles as a property of shape or description of a turn <br> -identify right angles -recognise that two right angles make a half-turn, three make three quarters of a turn and four a complete turn -identify whether angles are greater or less than a right angle -identify horizontal and vertical lines -identify pairs of perpendicular and parallel lines | -identify acute and obtuse angles -compare and order angles up to two right angles by size -complete a simple symmetric figure with respect to a specific line of symmetry | -know angles are measured in degrees: estimate and compare acute, obtuse and reflex angles -draw given angles and measure them in degrees -identify angles at a point and one whole turn (360 degrees) -identify angles at a point on a straight line and 1/2 turn (180 degrees) -identify other multiples of 90 degrees | -find unknown angles in any triangles, quadrilaterals and regular polygons -recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles |

Mathematics
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Geometry: Position and Direction and Spatial Awareness

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| Term 3, 4, 5, 6 | Term 5 | Term 5 |  | Term 6 | Term 5 | Term 5 |
| -use positional language to describe how items are positioned in relation to other items <br> -recognise, copy, continue and create a widening range of repeat patterns, which use items more than once in each repeat, and symmetrical constructions -match arrangements of shapes using positional language <br> -select and rotate shapes to fill a given space -explain why a particular shape is chosen or why it won't fit -understand that shapes can be combined and separated to form new shapes -know that places and models can be replicated -understand that we can make maps and plans to represent places and use these to see where things are in relation to other things | -describe position, direction and movement including whole, half, quarter and three quarter turns | -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 anticlockwise) |  | -describe positions on a 2D grid as coordinates in the first quadrant -describe movements between positions as translations of a given unit to the left/right and up/down -plot specified points and draw sides to complete a given polygon | -identify, describe and represent the position of a shape following a reflection or translations, using the appropriate language, and know that the shape has not changed | -describe positions on the full coordinate grid (all four quadrants) -draw and translate simple shapes on the coordinate plane and reflect them in the axes |
| Geometry: Solve Problems |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| Term 3, 4, 5, 6 | Term 4, 5 | Term 4, 5 | Term 6 | Term 6 | Term 5 | Term 5 |
| -solve problems that involve all of the above and give reason | -solve problems that involve all of the above and give reason | -solve problems that involve all of the above and give reason | -solve problems that involve all of the above and give reason | -solve problems that involve all of the above and give reason | -solve problems that involve all of the above and give reason | -solve problems that involve all of the above and give reason |

## Mathematics <br> Progression in Skills at Fawkham CEP School

Statistics: Present and Interpret

| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
|  |  | Term 3 | Term 6 | Term 6 | Term 4, 5 | Term 4, 5 |
|  |  | -interpret and construct simple pictograms, tally charts, block diagrams and simple tables -ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity -ask and answer simple questions about totalling and comparing categorical data | -interpret and present data using bar charts, pictograms and tables | -interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs | -complete, read and interpret information in tables, including timetables | -interpret and construct pie charts and line graphs -calculate and interpret the mean as an average |
| Statistics: Solve Problems |  |  |  |  |  |  |
| EYFS | Year 1 | Year 2 | Year 3 | Year 4 | Year 5 | Year 6 |
|  |  | Term 3 | Term 6 | Term 6 | Term 4, 5 | Term 4, 5 |
|  |  | -solve problems that involve all of the above | -solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables (e.g. how many more? how many fewer?) | -solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | -solve <br> comparison, sum and difference problems using information presented in a line graph | -use pie charts and line graphs to solve problems -solve problems that involve all of the above |

