| Au | Wk 1 Wk 2 Wk 3 Wk 4 | Wk 5 | Wk 6 Wk 7 | Wk 8 | Wk 9 Wk 10 | Wk 11 | Wk 12 | |
|----|--|--|--|--|--|---|------------------------------------|--|
| Y1 | Number – Place Value Count to and across <u>20</u>, forwards and backwards, beginning with 0 or 1, or from any given number. Count, read and write numbers to <u>20</u> in numerals and words Given a number, identify one more or 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 Read and write numbers from 1 to 20 in numerals and words | Number – Addition & Subtraction Represent and use number both Read, write and interpret math Add and subtraction one digit in Solve one step problems that ir | nds and related subtraction facts within 20 ematical statements involving addition (+), so | ubtraction (-) and equals (=) signs | Geometry: Shape Recognise and name common 2D shapes, including rectangles (including squares), circles and triangles Recognise and name common 3D shapes, including: cuboids, pyramids and spheres | Wk 11 Wk 12 Measurement: Money Recognise and know the value of different denominations of coins and notes | | |
| Y2 | Number – Place Value Read and write numbers to at least 100 in numerals and in words Recognise the place value of each digit in a 2-digit number (TU) Identify, represent and estimate numbers using different representations including the number line Compare and order numbers from 0 to 100; use <> and = signs Use place value and number facts to solve problems | Solve problems with addition and subtraction: using concrete objects, pictorial representations, including those involving numbers, quantities and measures; applying their increasing knowledge of mental and written methods Show that the addition of two numbers can be done in any order (commutative) and subtraction of one number from another cannot Recognise the inverse relationship between addition and subtraction and use this to check calculations and solve missing number problems | | | Geometry: Shape Identify and describe the properties of 2D shapes, including the number of sides and line symmetry in a vertical line Identify and describe the properties of 3D shapes, including the number of edges, vertices and faces Identify 2D shapes on the surface of 3D shapes Compare and sort common 2D and 3D shapes and everyday objects | Measurement: Money Recognise and use symbols for pounds and pence; 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 | | |
| Y3 | Number – Place Value Read and write numbers up to 1000 in numerals and in words Identify, represent and estimate numbers using different representations find 10 or 100 more or less than a given number Recognise the place value of each digit in a three-digit number (HTU) Compare and order numbers up to 1000 Count from 0 in multiples of 50 and 100 Solve number problems and practical problems involving these ideas | | | | Number – Multiplication & Division Count from 0 in multiples of 4 and 8 Recall and use multiplication and division facts for the 3, 4 a Write and calculate mathematical statements for multiplicat multiplication tables that they know, including for two-digit numbers, using mental and progressing to formal written m Solve problems, including missing number problems, involvir including positive integer scaling problems and corresponder are connected to m objects | ation and division using the trumbers times one-digit nethods are multiplication and division, | Consolidation | |
| Y4 | Number – Place Value Count in multiples of 25 and 1000 Identify, represent and estimate numbers using different representations Find 1000 more or less than a given number Count backwards through zero to include negative numbers Recognise the place value of each digit in a 4-digit number Order and compare numbers beyond 1000 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 Read Roman numerals to 100 (I to C) and know that over time, the numeral system changed to include the concept of zero and place value | | | | Number – Multiplication & Division Count in multiples of 6, 7 and 9 Recall multiplication and division facts for multiplication tables up to 12 x 12 Use place value, known and derived facts to multiply and divide mentally, including: multiplying by 0 and 1; dividing by 1; multiplying together three numbers Solve problems involving multiplying and adding, including using the distributive law to multiply two-digit numbers by one digit, integer scaling problems and harder correspondence problems such as n objects are connected to m objects | | | |
| Y5 | million and determine the value of each digit Count forwards and backwards in steps of powers of 10 for any given number up to 1 million Interpret negative numbers in context, count forwards and backwards with positive and negative whole numbers through zero Iarge numbers Add and subtract wing digits, including us Use rounding to che determine, in the context of the determine of the d | whole numbers with more than 4 – ng formal written methods eck answers to calculations and ontext of a problem, levels of accuracy subtraction multi-step problems in which operations and methods to use | and common factors of two number Multiply numbers up to 4-digits by a written method, including long multi Divide numbers up to 4-digits by a on written method of short division and context Solve problems involving addition and | and 1000 ding finding all factor pairs of a number, s one or two digit number using a formal plication for 2-digit numbers | Statistics Solve comparison, sum and difference problems using information presented in a line graph Complete, read and interpret information in tables including timetables | Measure and calculate t perimeter of composite shapes in cm and m Calculate and compare t rectangles (including squ using standard units, est area of irregular shapes | perimeter of composite rectilinear | |
| Y6 | Number – Place Value Read, write, order and compare numbers up to ten million and determine the value of each digit Identify the value of each digit to three decimal places Use negative numbers in context, and calculate intervals across zero Round any whole number to a required degree of Number – Addition & Su operations & Su operations and large of each digit operations and large operations and large of each digit operations and large operations are determined by the large operation and large operations are determined by the large operation and large operations are determined by the large operation and large operations are determined by the large operation and large operations are determined by the large operation and large operation are determined by the large operation and large operation are determined by the large operation and large operation are determined by the large operation and large operation are determined by the large operation and large operation are determined by the large op | ations, including with mixed • Identify common factors, common multiples and prime numbers | | Statistics Interpret and construct pie charts and line graphs and use these to solve problems Illustrate and name parts of circles, including radius diameter and circumference and know that diameter is twice the radius Calculate the mean as an average | Measurement: Perimeter, area and volum | | | |

Whole school mathematics plan (based on White Rose small steps progression). The number of weeks is a guideline only; teachers should use their professional judgement and only move on to the next 'theme' when the majority of children (not including SEND) have met the set of national curriculum objectives covered. Likewise, objectives may need to be revisited at a later date if the attainment is not yet secure. Children who have been judged as secure for a specific learning objective will be challenged to work at greater depth. They will be given a rich experience using routine and non-routine questions. It is the aim that all activities will flow with a clear progression towards mastery.

| Sp | WK1 WK2 | WK3 WK4 | WK5 | WK6 | WK7 | WK8 WK9 | WK10 WK11 | WK12 | | | |
|----|---|--|---|--|---|--|---|------------|--|--|--|
| | Number: Place Value and multiplication and d | - | Number: Fractions | | 1 | Measurement: Length & Height | Measurement: Weight & Volume | 1111 | | | |
| | • | | Recognise, find a | nd name a half as one | of two equal parts of | Measure and begin to record lengths | _ | | | | |
| | Count, read and write numbers to 50 in numerals Given a number, identify one more or one less an object, Recognise, | | | an object, shape or quantity Recognise, find and name a quarter as one of four equal parts • Compare, describe and solve practical | | | Compare, describe and solve practical problems: mass and weight | | | | |
| | | | | | | | Compare, describe and solve practical problems: capacity and volume | | | | |
| | | | | oe or quantity | | problems: lengths and heights | | | | | |
| | Read and write numbers from 1 to 20 in | numerals and words | | | | | | solidation | | | |
| | Solve one step problems involving multiplication and division, by calculating the answer using concrete objects, pictorial representations and arrays with the support | | | | | | | | | | |
| | | | | | | | | Con | | | |
| | of the teacher | | | | | | | | | | |
| Y2 | Number: Place Value and multiplication and d | Number: Fractions | 3 3 | | | Measurement: Weight & Volume | | | | | |
| | backward 3/4 of a length, sh | | | ength, shape, set of objects or quantity ple fractions for example, 1/2 of 6 = 3 and recognise • Choose and use appropriate standard units to estimate and measure to the nearest appropriate unit, using rulers, | | | • Choose and use appropriate standard units to estimate and measure to the nearest appropriate | | | | |
| | | | | | | | unit, using rulers, scales, thermometers and measuring vessels: mass (kg/g); capacity (litres/ml), temperature (C) and volume | | | | |
| | | | | • • • | or 0 = 3 and recognise | scales, thermometers and measuring | Compare and order: Volume and capacity recording the results using >, < and = | | | | |
| | | | | vessels: length/height in any direction | | | compare and order. Volume and capacity recording the results doing 7, valid | | | | |
| | multiplication tables and write them usi | · | | (m/cm); • Compare and order: Lengths and record the results using >, < and = | | | | | | | |
| | equals (=) signs | | | | | | | | | | |
| | Show that multiplication of two number | s can be done in any order (commutative) and | | | | | | ation | | | |
| | division of one number by another canno | ot | | | | | | dat | | | |
| | Solve problems involving multiplication | and division, using materials, arrays, | | | | | | soli | | | |
| | repeated addition, mental methods and | | | | | | | | | | |
| | problems in contexts | T | | | | | | | | | |
| Y3 | Number: Multiplication and division | Measurement: Length, perimeter and area | Fractions | . (| | Fractions | decree 6 Construction and Construction (90 of the | | | | |
| | Write and calculate mathematical statements for multiplication and | Measure, compare, add and subtract: lengths (m/cm/mm); | | | s: unit fractions and non- | <u> </u> | der unit fractions, and fractions with the same denominators | | | | |
| | statements for multiplication and division using the multiplication | lengths (m/cm/mm);Measure the perimeter of simple 2-D | small denominat | | a discrete set of objects: | · | that involve all of the above | | | | |
| | tables that they know, including for | shapes | • . | ind write fractions of a is with small denomin | • | מוווג וומכנוטווס מווע | | | | | |
| | two-digit numbers times one-digit | Continue to measure using the | | | | dividing an object | | | | | |
| | numbers, using mental and appropriate tools and units, into 10 equal pa | | | | and down in tenths; recognise that tenths arise from dividing an object ual parts and in dividing one-digit numbers or quantities by 10 and show, using diagrams, equivalent fractions with small denominators | | | | | | |
| | | | | | | | | | | | |
| | Solve problems, including missing | btract fractions with the same denominator within one whole [for example, | | | | | | | | | |
| | number problems, involving using mixed and simple equivalents of $5/7 + 1/7 = 6/7$ | | | $\cdot 1/7 = 6/7$ | | | | | | | |
| | multiplication and division, including | mixed units | | 6/7] | | | | | | | |
| | positive integer scaling problems and | | | | | | | losc | | | |
| | correspondence problems in which n | | | | Į Š | | | | | | |
| Y4 | objects are connected to m objects Number: Multiplication and division | Measurement: Length, perimeter and area | Fractions | | | Fractions | | | | | |
| 14 | Multiply two-digit and three-digit | nvolving increasingly h | arder fractions to calcula | | rite decimal equivalents of any number of tenths or hundredths | | | | | | |
| | numbers by a one-digit number using | s to divide quantities, including non-unit fractions where the answer is a whole • Recognise and write decimal equivalents to ¼, ½, ¾ | | | | | | | | | |
| | numbers by a one-digit number using measure fractions to divide formal written layout • Measure and calculate the number | | | | | | | | | | |
| | Solve problems involving multiplying | perimeter of a rectilinear figure | Count up and do | • Compare numbers with the same number of decimal places up to two decimal places t by one hundred and dividing tenths by ten gnise and show, using diagrams, families of common equivalent fractions and subtract fractions with the same denominator | | | | | | | |
| | and adding, including using the | (including squares) in centimetres | object by one hu | | | | | | | | |
| | distributive law to multiply two-digit | and metres | Recognise and s | | | | | | | | |
| | numbers by one digit, integer scaling | Find the area of rectilinear shapes | Add and subtract | | | | | | | | |
| | problems and harder correspondence | by counting squares | | | | | | | | | |
| | problems such as n objects are connected to m objects | | | | | | | | | | |
| | Recognise and use factor pairs and | | | | | | | Consolid | | | |
| | commutativity in mental calculations | | | | | | | ပိ | | | |
| Y5 | Fractions | 1 | 1 | Decimals and percen | tages | <u> </u> | Multiplication & Division (RECAP) | 1 | | | |
| | | nominators are all multiples of the same numb | oer | Read, write, or | der and compare numbe | ers with up to three decimal places | Recognise and use square numbers and cube numbers and the notation squared (²) and cubed (³) | | | | |
| | Identify, name and write equivalent frac | tions of a given fraction, represented visually, ir | ncluding tenths and | Recognise and | use thousandths and rela | ate them to tenths, hundredths and decimal | Know and use the vocabulary of prime numbers, prime factors and composite (non-prime) numbers | rs | | | |
| | hundredths | | | equivalents | | | Establish whether a number up to 100 is prime and recall prime numbers up to 19 | | | | |
| | Recognise mixed numbers and improper fractions and convert from one form to the other and write | | | | | those involving decimals by 10, 100 and 1000 | Solve problems involving multiplication and division including using their knowledge of factors and in the solution including using their knowledge of factors and including using the including using using the including using using using | multiples, | | | |
| | mathematical statements > 1 as a mixed number [for example, $2/5 + 4/5 = 6/5 = 11/5$]. | | | | s with two decimal place | s to the nearest whole number and to one | squares and cubes | | | | |
| I | | and a construction and a condition of the Contract Contra | Add and subtract fractions with the same denominator and multiples of the same number | | | | | | | | |
| | Add and subtract fractions with the sam | | Is and diagrams | Solve problems involving numbers up to three decimal places | | | | | | | |
| | Add and subtract fractions with the samMultiply proper fractions and mixed num | nbers by whole numbers, supported by materia | ls and diagrams | · | ior cont cumbal 10/1 and . | understand that nor contirolates to 'number of | | | | | |
| | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions | nbers by whole numbers, supported by materia ctions | - | Recognise the p | • • • • • | understand that per cent relates to 'number of | | | | | |
| | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication | nbers by whole numbers, supported by materia | - | Recognise the p | • • • • • | understand that per cent relates to 'number of ges as a fraction with denominator 100, and as | | | | | |
| | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions | nbers by whole numbers, supported by materia ctions | - | Recognise the parts per hundred a decimal | red', and write percentag | • | | | | | |
| | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication | nbers by whole numbers, supported by materia ctions | - | Recognise the parts per hundred a decimal Solve problems | ed', and write percentages which require knowing | ges as a fraction with denominator 100, and as | | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication | nbers by whole numbers, supported by materia ctions | - | Recognise the parts per hundred a decimal Solve problems | ed', and write percentag s which require knowing l/5 and those fractions w | ges as a fraction with denominator 100, and as gercentage and decimal equivalents of 1/2, | Algebra & Ratio | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fracti | - | Recognise the parts per hundred a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percent | red', and write percentages which require knowing ty/5 and those fractions was tages | ges as a fraction with denominator 100, and as gercentage and decimal equivalents of 1/2, | Algebra & Ratio Use simple formulae | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including fractions | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fracti | ions and problems | Recognise the parts per hundred a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the value numbers by 10, | red', and write percentages which require knowing 1/5 and those fractions was tages ue of each digit to three 1/100 and 1/100 where the | ges as a fraction with denominator 100, and as gerometric percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places | | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including for the common factors to simplify fractions denomination | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fracti ractions >1 s; use common multiples to express fractions in | ions and problems the same | Recognise the parts per hundre a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the valuntmers by 10, Solve problems | which require knowing to some the sound write percentage to the sound to some the sound to so | ges as a fraction with denominator 100, and as percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places to be rounded to specified degrees of accuracy | Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including for the common factors to simplify fractions denomination Add and subtract fractions with differential decimal fractions with differential fractions. | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fracti arctions >1 | ions and problems the same | Recognise the parts per hundre a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the valuables by 10, Solve problems Multiply one-di | which require knowing to and those fractions we tages ue of each digit to three which require answers to git numbers with up to to | ges as a fraction with denominator 100, and as percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places to be rounded to specified degrees of accuracy wo decimal places by whole numbers | Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including fractions denomination Add and subtract fractions with different fractions | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fractions >1 s; use common multiples to express fractions in t denominators and mixed numbers, using the common multiples to express fractions in the common multiples in the common multiple in the commo | ions and problems the same concept of equivalent | Recognise the parts per hundre a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the valuables by 10, Solve problems Multiply one-di Use written div | which require knowing to and those fractions we tages ue of each digit to three which require answers to git numbers with up to to ision methods in cases we | ges as a fraction with denominator 100, and as percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places to be rounded to specified degrees of accuracy wo decimal places by whole numbers where the answer has up to two decimal places | Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables | | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including fractions denomination Add and subtract fractions with different fractions Multiply simple pairs of proper fractions | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fractions >1 s; use common multiples to express fractions in t denominators and mixed numbers, using the continuous the answer in its simplest form [for examples]. | ions and problems the same concept of equivalent | Recognise the parts per hundre a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the valuables by 10, Solve problems Multiply one-di Use written div Solve problems | which require knowing to and those fractions we tages ue of each digit to three which require answers to git numbers with up to to ision methods in cases we | ges as a fraction with denominator 100, and as percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places to be rounded to specified degrees of accuracy wo decimal places by whole numbers | Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables Solve problems involving the relative sizes of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be combinated by the combination of two quantities where missing values can be combinated by the combination of two quantities where missing values can be combined by the combined by | using | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including fractions denomination Add and subtract fractions with different fractions Multiply simple pairs of proper fractions Divide proper fractions by whole number | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fractions >1 are common multiples to express fractions in t denominators and mixed numbers, using the common with the answer in its simplest form [for exerts [for example, $1/3 \div 2 = 1/6$] | the same concept of equivalent ample, $\frac{1}{4}$ x $\frac{1}{2}$ = 1/8] | Recognise the parts per hundre a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the valuation numbers by 10, Solve problems Multiply one-di Use written div Solve problems comparison | which require knowing to and those fractions we tages ue of each digit to three which require answers to git numbers with up to to ision methods in cases we involving the calculation | ges as a fraction with denominator 100, and as gerometric percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places to be rounded to specified degrees of accuracy wo decimal places by whole numbers where the answer has up to two decimal places in of percentages and the use of percentages for | Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables Solve problems involving the relative sizes of two quantities where missing values can be found by uninteger multiplication and division facts | using | | | |
| Y6 | Add and subtract fractions with the sam Multiply proper fractions and mixed nun Read and write decimal numbers as fractions Solve problems involving multiplication involving simple rates Fractions Compare and order fractions, including fractions denomination Add and subtract fractions with different fractions Multiply simple pairs of proper fractions Divide proper fractions by whole number | nbers by whole numbers, supported by materia ctions and division, including scaling by simple fractions >1 s; use common multiples to express fractions in t denominators and mixed numbers, using the continuous the answer in its simplest form [for examples]. | the same concept of equivalent ample, $\frac{1}{4}$ x $\frac{1}{2}$ = 1/8] | Recognise the parts per hundre a decimal Solve problems 1/4, 1/5, 2/5, 4 Decimals and percen Identify the valuables by 10, Solve problems Multiply one-di Use written div Solve problems comparison Recall and use | which require knowing to and those fractions we tages ue of each digit to three which require answers to git numbers with up to to ision methods in cases we involving the calculation | ges as a fraction with denominator 100, and as percentage and decimal equivalents of 1/2, with a denominator of a multiple of 10 or 25 decimal places and multiply and divide e answers are up to three decimal places to be rounded to specified degrees of accuracy wo decimal places by whole numbers where the answer has up to two decimal places | Use simple formulae Generate and describe linear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equation with two unknowns Enumerate possibilities of combinations of two variables Solve problems involving the relative sizes of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be found by the combination of two quantities where missing values can be combinated by the combination of two quantities where missing values can be combinated by the combination of two quantities where missing values can be combined by the combined by | _ | | | |

Whole school mathematics plan (based on White Rose small steps progression). The number of weeks is a guideline only; teachers should use their professional judgement and only move on to the next 'theme' when the majority of children (not including SEND) have met the set of national curriculum objectives covered. Likewise, objectives may need to be revisited at a later date if the attainment is not yet secure. Children who have been judged as secure for a specific learning objective will be challenged to work at greater depth. They will be given a rich experience using routine and non-routine questions. It is the aim that all activities will flow with a clear progression towards mastery.

| Su | Wk 1 Wk 2 | Wk 3 Wk 4 | Wk 5 Wk 6 | Wk 7 | Wk 8 Wk 9 | Wk 10 Wk 11 | Wk 12 |
|-------|--|--|---|---|--|---|---------------|
| Y1 Y2 | Number: 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 Given a number, identify one more and one less Read and write numbers from 1 to 20 in numerals and words 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 Statistics Interpret and construct simple pictograms, | Geometry: Position & Direction Describe position, direction and movement, including whole, half, quarter and three-quarter turns Geometry: Position & Direction Use mathematical vocabulary to describe | Problem solving & efficient methods Problem solving & efficient methods | example, befindering, after morning, after Recognise and week, weeks, Tell the time hands on a cl Compare, de Measure and | ents in chronological order using language [for ore and after, next, first, today, yesterday, tomorrow, ernoon and evening] duse language relating to dates, including days of the months and years to the hour and half past the hour and draw the ock face to show these times scribe and solve practical problems for time begin to record time (hours, minutes, seconds) | Investigations | Consolidation |
| | 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 questions about totalling and comparing categorical data | 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) Order and arrange combinations of mathematical objects in patterns and sequences | | 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 Compare and sequence intervals of time | | | |
| Y3 | Measurement: Money Add and subtract amounts of money to give change, using both £ and p in practical contexts | Statistics Interpret and present data using bar charts, pictograms and tables Solve one-step and two-step questions [for example, 'How many more?' and 'How many fewer?'] using information presented in scaled bar charts and pictograms and tables | Measurement: Time Tell and write the time from an analogue clock and 12-hour and 24-hour clocks; an analogue clock, including using Roman numerals from I to XII. 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 a.m./p.m., 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 Compare durations of events [for example to calculate the time taken by particular events or tasks] | | Geometry: Properties of shape Recognise angles as a property of shape or a description of a turn 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 than or less than a right angle Identify horizontal and vertical lines and pairs of perpendicular and parallel lines Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them | Measurement: volume & capacity • Measure, compare, add and subtract: mass (kg/g); volume/capacity (I/mI) | |
| Y4 | Estimate, compare and calculate different measures, including money in pounds and pence Solve simple measure and money problems involving fractions and decimals to two decimal places | Statistics Interpret and present discrete and continuous data using appropriate graphical methods, including bar charts and time graphs Solve comparison, sum and difference problems using information presented in bar charts, pictograms, tables and other graphs | Measurement: Time Read, write and convert time between analogue and digital 12 and 24-hour clocks Convert between different units of measure e.g. hour to minute Solve problems involving converting from hours to minutes; minutes to seconds; years to months; weeks to days | | Geometry: Properties of shape Identify acute and obtuse angles and compare and order angles up to two right angles by size Identify lines of symmetry in 2-D shapes presented in different orientations Complete a simple symmetric figure with respect to a specific line of symmetry Compare and classify geometric shapes, including quadrilaterals and triangles, based on their properties and sizes | Coordinates Describe positions on a 2-D grid as co-ordinates 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 | |
| Y5 | Measuring – converting units | Geometry – position & direction 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 Distinguish between regular and irregular polygons based reasoning about equal sides and angles Distinguish between regular and irregular polygons based reasoning about equal sides and angles Know angles are measured in degrees: estimate and compositive and reflex angles Draw given angles, and measure them in degrees (0) Identify: angles at a point and one whole turn (total 360°); point on a straight line and 1/2 a turn (total 180°); other measure in the position of a shapes and angles Identify 3-D shapes, including cubes and other cuboids, from representations Use the properties of rectangles to deduce related facts and missing lengths and angles Distinguish between regular and irregular polygons based reasoning about equal sides and angles More than the cuboids, from representations Use the properties of rectangles to deduce related facts and missing lengths and angles Distinguish between regular and irregular polygons based reasoning about equal sides and angles More than the cuboids, from representations Use the properties of rectangles to deduce related facts and missing lengths and angles Distinguish between regular and irregular polygons based reasoning about equal sides and angles More than the cuboids, from representations Use the properties of rectangles to deduce related facts and missing lengths and angles Distinguish between regular and irregular polygons based reasoning about equal sides and angles More than the cuboids, from representations | | Investigations | | | |
| Y6 | Measuring – converting units | Geometry – position & direction • Describe positions on the full co-ordinate grid (all four quadrants) • Draw and translate simple shapes on the co-ordinate Geometry – professor of Compare sizes and regular p • Draw 2-D • Recognise | operties of shapes and angles and classify geometric shapes based on their properties and find unknown angles in any triangles, quadrilaterals, and olygons shapes using given dimensions and angles e angles where they meet at a point, are on a straight line, or cally opposite, and find missing angles | Investigations | | | |

Whole school mathematics plan (based on White Rose small steps progression). The number of weeks is a guideline only; teachers should use their professional judgement and only move on to the next 'theme' when the majority of children (not including SEND) have met the set of national curriculum objectives covered. Likewise, objectives may need to be revisited at a later date if the attainment is not yet secure. Children who have been judged as secure for a specific learning objective will be challenged to work at greater depth. They will be given a rich experience using routine and non-routine questions. It is the aim that all activities will flow with a clear progression towards mastery.