Wheelwright Lane Primary School Whole School Maths Long Term Plan

Y Autur	nn 1	Autumn 2	Spring 1	1 8	Summer 1	Summer 2
Cardinality and count moveable objects. Say one number for order: 1,2,3,4,5. Knows cardinal pri Link numerals and example, showing to fobjects to match to 5. Then to 10 Begin to describe a events, real or fictic such as 'first', 'ther Subitising Perceptual subitising Perceptual subitising recognisable patter comparing number Compare quantities 'more than', 'fewer Adding / Subtract Solve real world me problems with numerals world me problems with numerals. Multiplying / Divi Can share between necessary recognisare produced. Fractions Can equipartition a Patterning Talk about and identification and the Shadow / copy AB Measurements Make comparisons relating to size and Shape Talk about and expinformal and match language. Select shapes a for Combine shapes to Space Understand position alone. Discuss routes and	counting at 5. fixed and r each item in nciple. amounts: for the right number the numeral, up sequence of onal, using words a' ag to 3 ne.g. dice. er s using language: than'. ing athematical abers up to 5. ther. mbols /marks/ ding 2 but not e equal quantities whole shape ntifies the m. AB patterns. between objects length lore 2D using ematical pictures make new ones. In through words	Autumn 2 Cardinality and Counting Recite numbers past 10 Recognise and order numbers to 10 and beyond. Counts an irregular arrangement of up to 10 objects Recite beyond ten. Count objects, actions and sounds to 10 Link the number symbol (numeral) with its cardinal number value. Subitising Perceptual subitise to 5 recognisable e.g. dice Comparing number Compare numbers. Understand the 'one more than/one less than' relationship between consecutive numbers to 10 Adding / Subtracting Counting groups of objects together Subtract by taking away Begins to use part part whole to solve problems Composition Explore the composition of numbers to 5. Automatically recall number bonds for numbers 0–3. Multiplying / Dividing Can share equally between 2 or more people. Fractions Recognises halves Patterning Continue ABAB repeating patterns Measurements Develop language of comparison 3 objects Shape Compose and decompose shapes so that children recognise a shape can have other shapes within it, just as numbers can. Space Slides, flips, turns objects 45, 90 180 to fit objects	Spring 1 Cardinality and Counting Recite numbers past 15 Count beyond ten. Count objects, actions and sounds over 10 Link the numeral with its cardinal number value over 10 Subitising Conceptual subitise to 5 Comparing number Compare numbers over 10. Understand the 'one more than/one less than' relationship between consecutive numbers to 10/20 Adding / Subtracting Starts to count on when adding and count back when subtracting to 5 Begins to use part part whole to solve problems Composition Explore the composition of numbers to 7. Automatically recall number bonds for numbers 0–5. Multiplying / Dividing Can share equally between 2 or more people. Fractions Recognises the need for half when sharing an odd amount Patterning Continue repeating patterns Measurements Compare weight Develop language of comparison Shape Select, rotate and manipulate shapes in order to develop spatial reasoning skills. Space Develop positional language	Cardinality and Counting Recite numbers past 20 Count accurately beyond ten. Count objects, actions and sounds to 20. Link the numeral with its cardinal number value to 20 Subitising Conceptual subitise to 5 Comparing number Compare numbers over 10. Understand the 'one more than/one less than' relationship between consecutive numbers to 15 Adding / Subtracting Starts to count on when adding and count back when subtracting to 10 Finds simple missing number problems Begins to use part part whole to solve problems Composition Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0–7. Multiplying / Dividing Solve multiplying problems by making groups of objects. Fractions Recognises the need for half when sharing an odd amount Patterning Continue more complex repeating patterns Measurements Develop language of comparison Shape Select, rotate and manipulate shapes in order to develop spatial reasoning skills 3D shapes Compose and decompose shapes so that children recognise a shape can have other shapes within it – 3D shapes	Summer 1 Cardinality and Counting Recite numbers past 20 Count beyond ten. Count objects, actions and sounds beyond 20 Link numeral with its cardinal number value to 20 Subitising Conceptual subitise to 7 Comparing number Compare numbers to 20. Understand the 'one more than/one less than' relationship between consecutive numbers to 20 Adding / Subtracting Starts to count on when adding and count back when subtracting to 20 Finds simple missing number problems Begins to use part part whole to solve problems Composition Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0–10. Multiplying / Dividing Can share equally between 2 or more people. Solve multiplying problems by making groups of objects 2, 5, 10 knows odds and evens Fractions Recognises the need for half when sharing an odd amount Patterning Continue more complex repeating patterns – round corners, staircase, hopscotch etc. Measurements nonstandard length, weight and capacity Develop language of comparison Shape Select, rotate and manipulate shapes in order to develop spatial reasoning skills.	Cardinality and Counting Recite numbers past 20 Count beyond ten. Count objects, actions and sounds beyond 20 Link numeral with its cardinal number value beyond 20 Subitising Conceptual subitise to 10 Comparing number Compare numbers beyond 20. Understand the 'one more than/one less than' relationship between consecutive numbers above 20 Adding / Subtracting Starts to count on when adding and count back when subtracting to 20 Finds simple missing number problems Begins to use part part whole to solve problems Composition Explore the composition of numbers to 10. Automatically recall number bonds for numbers 0–10. Multiplying / Dividing Can share equally between 2 or more people. Solve multiplying problems by making groups of objects 2, 5, 10 Knows odds and evens Fractions Recognises the need for half when sharing an odd amount Patterning Continue more complex repeating patterns – round corners, staircase, hopscotch etc. Measurements Compare capacity Develop language of comparison Space Use coordinate labels in simple games Locate objects on a map using 2 co- ordinates
front of and 'behir	nd'.	Number	Number	Number	Number	Number
Number 1		Number	Number	Number Identify and represent numbers by partitioning 2 and 3 digit numbers.	Number	Number

Identify and represent numbers using objects and pictorial representations.

Use the language of: equal to, more than, less than (fewer), most, least. Count to and across 100, compare and order numbers, count, read and write numbers to 100 in numerals.

NCETM Unit 1

Addition

Part whole model, number bonds to and within 10.

NCETM Unit 2

Measurement

Sequence events in chronological order using language such as: before and after, next, first, today,.

Geometry

Describe position, direction and movement.

NCETM Unit 10

Count to and across 100, compare and order numbers, count, read and write numbers to 100 in numerals.

Addition and Subtraction

Part whole model, number bonds to and within 10, fact families add and subtract numbers to 10, including zero counting and adding across teens numbers.

NCETM Unit 2 and unit 5

Geometry

Recognise & name 2D and 3D Shapes.

NCETM Unit 4

Measurement

Recognise and use language relating to dates, including days of the week, weeks, months and years.

Tell the time to the hour and half past the hour and draw the hands on a clock face to show these times. Solve problems involving time.

NCETM Unit 11

Count to and across 100, compare and order numbers, count, read and write numbers to 100 in numerals. Count in multiples of two, five and

Recognise number patterns, e.g. odd and even numbers.

Given a number identify 1 more/1 less, 10 more/10 less.

Tens and Ones.

To recognise and know the value of different denominations of coins.

NCETM Unit 9

Addition and Subtraction

Solve one-step problems that involve addition and subtraction (context of money).

NCETM Unit 6

Adding and subtracting multiples of ten.

Fractions

Recognise, find and name a half as one of two equal parts of an object/shape.

Read and write numbers from 1 to 20 in numerals and words.

NCETM Unit 8

Addition and Subtraction

Read, write and interpret mathematical statements involving addition (+), subtraction (-) and equals (=).

NCETM Unit 7

Measurement

Compare, describe and solve practical problems for length (non-standard & m & cm).

Compare, describe and solve practical problems for weight (non-standard & kg & g).
Recognise and use language relating

to dates, including days of the week, weeks, months and years.

NCETM Unit 11

Count, read and write numbers to 100 in numerals; count in multiples of twos, fives and tens.

Addition and Subtraction

Solve one-step problems and missing number problems.

Multiplication and Division

Use knowledge of multiples of 2, 5 and 10 to solve problems and carry out investigations.

Solve one-step problems involving

solve one-step problems involving multiplication and division, by calculating the answer using pictorial representations and arrays with teacher support.

Fractions

Recognise, find and name a half and a quarter as one of four equal parts of an amount, an object and a shape. Count to and across 100, compare and order numbers, count, read and write numbers to 100 in numerals. Introducing the 100 square.

Addition and Subtraction

Add and subtract one-digit and two-digit numbers to 20, including zero.

NCETM Unit 8

Measurement

Recognise and use language relating to dates, including days of the week, weeks, months and years. Tell the time to the hour and half

past the hour and draw the hands on a clock face to show these times. Solve problems involving time.

NCETM Unit 11

Geometry

Describe position, directions and movements, including half, quarter and three-quarter turns.

NCETM Unit 10

Number
Place Value, tens and ones.
Count, represent multiples of ten,
estimate position on a number line
0-100.

Addition and Subtraction with multiples of ten, Explore counting sequences between 0-100. Counting groups objects using tens and ones and combining. Compare two-digit numbers using tens and ones and exploring nonstandard partitioning.

NCETM Unit 1 & 2

Measurement

Counting in 10s and estimate measures using number lines and rulers

Measures using coins of 10p and 1p as a form of tens and ones.

Number

Place value of hundreds, tens and ones, compare numbers using more/less greater/fewer <> =.

NCETM Unit 1

Addition and Subtraction

Number Facts and subitising, explore addends, using 3 in any order, add and subtract two numbers that bridge tens. Add two 2 digit numbers using column addition method.

Find different between two consecutive numbers by counting on, calculate using pictograms and bar charts - (linked to science).

NCETM Unit 3 & 4

Multiplication and Division

Explore equal groups as repeated addition, pupils explain each part of the multiplication equation. **NCETM Unit 5**

Number

Number facts and subitising, rounding numbers to nearest 10. Use place value and number facts to solve problems.

Multiplication and division

Explore equal groups and arrays, divide by 2 by sharing, explain relationship between 2,5,10.

NCETM Unit 6

Addition and subtraction

Add and subtract one from any two digit number, add and subtract 10 from any two digit number using knowledge of tens and ones. Add 2 digit numbers crossing the ten, use number bonds to subtract from 2 digit number. Introduction to expanded method.

NCETM Unit 8

Measurement

Revise coins, find totals and give change from 20, 50p and £1, Make the same total in different ways.

NCETM Unit 9

Fractions

Explore equal parts and identify 1/2, $\frac{1}{4}$, $\frac{1}{3}$, $\frac{3}{4}$, $\frac{2}{4}$ of shape and apply this to number.

NCETM Unit 10

Number

Place value including hundreds, Number facts and subitising. Begin to solve two step problems with number.

Multiplication and division

Explore equal groups by sharing and grouping, use knowledge of 2.5.10 timetables to solve problems.

Divide by 2, 5, 10 through sharing and grouping.

NCETM Unit 6 & 13

Geometry

2D and 3D shape.

Explore properties through vertices, sides, faces.

NCETM Unit 7

Measurement

Know equivalent measures using ml, L, g, Kg, cm, M.

NCETM Unit 14 Addition and subtraction

2 digit numbers, Add and Subtract using the expanded method. NCETM Unit 8

Number

Number facts and subitising, Solve two step problems, choosing the correct operation.

Addition and Subtraction

Including column subtraction.

Measurement

Find totals and give change from 20p, 50p and £1.

Solve problems involving money. **NCETM Unit 9**

Fractions

Write simple fractions of amounts. Explore equal parts and identify equivalent fractions of ½.

NCETM Unit 10

Measurement

Tell time to hour, half past and 5 minutes.

Solve problems involving time.

NCETM Unit 11

Geometry

Explore turns, clockwise and anti clockwise, right angle turns. NCETM Unit 12

Number

Place value inc negative numbers.

Number facts and subitising.

Multiplication and division

Explain how halving and doubling are related. Explain, quotative and partitive division.

NCETM Unit 13

Statistics

Tally charts, pictograms and interpreting information.

Measurement

Capacity, volume, mass - read scales of cm, M, kg, g, ml and L in 10s 100s.

Read a thermometer to the nearest

Solve problems related to measure.

NCETM Unit 14

Geometry

Investigate shape problems, explore what is the same/different.

Explore right angles in shapes and find angles that are greater than/less than a right angle.

NCETM Unit 7

Number

Recognise the place value of each digit in a three-digit number (hundreds, tens, ones)

Read, write and compare numbers up to 1000 and represent in different ways.

Solve problems involving partitioning numbers.

Find 10, 100 more and less than a given number.

Round any number to the nearest 10 and 100.

NCETM Unit 2

Addition and subtraction

Add and subtract numbers mentally.

Add and subtract numbers with up to three digits, using formal written methods.

Solve problems.

NCETM Unit 1, 4 and 5

Addition and Subtraction

Add and subtract numbers mentally,

Add and subtract numbers with up to three digits, using formal written methods.

Solve problems.

NCETM Unit 1, 4 and 5

Multiplication and division

Recall and use multiplication and division facts for the; 3 x table, 4x table.

Write and calculate mathematical statements for multiplication and division progressing to written methods.

Solve problems.

NCETM Unit 6

Fractions

Recognise and use fractions as numbers: unit fractions.

To add and subtract fractions with the same denominator.

NCETM Unit 8

Measurement (covered in DT)

Measure, compare, add and subtract: mass (kg/g).

Number

Identify, represent and estimate numbers using different representations.

Solve number problems and practical problems involving these ideas.

NCTEM unit 2

Measurement

An analogue clock and 12-hour digital clock.

Use vocabulary such as o'clock, a.m./p.m., morning, afternoon, noon and midnight.

Know basic time conversions.

NCETM Unit 11

Geometry

Draw 2-D shapes and make 3-D shapes, recognise 3-D shapes in different orientations.

NCTEM unit 3.

Statistics- (science)

Interpret and present data using bar charts, pictograms and tables. Solve one-step and two-step questions.

Addition and Subtraction

Add and subtract numbers with up to three digits, using formal written methods.

Solve problems.

NCTEM units 5 and 7

Multiplication and division

Write and calculate mathematical statements for multiplication and division.

Solve problems.

NCTEM unit 6

Fractions

Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators.

Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators. Compare and order fraction.

NCETM Unit 8 and 9

Measurement

Tell time on analogue clock and 12-hour and 24-hour clocks; an analogue and digital clock.

Compare durations of events.

NCETM Unit 11

Geometry

Identify right angles, identify whether angles are greater than or less than a right angle.

NCTEM unit 3.

Identify horizontal and vertical lines and pairs of perpendicular and parallel lines.

NCTEM unit 10.

Fractions

Recognise tenths from dividing by 10.

Measurement

Measure the perimeter of simple 2-D shapes.

Measure and compare units of measurement.

Addition and Subtraction

Add and subtract numbers with up to three digits, using formal written methods of columnar addition and subtraction.

Measurement

Add and subtract amounts of money to give change.

Multiplication and division

Write and calculate mathematical statements for multiplication and division using written methods.

Fractions

Recognise and show, using diagrams, equivalent fractions with small denominators.

Compare and order fraction.

NCETM Unit 8 and 9

Measurement

Measure, compare, add and subtract different units of measurement.

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	Number	Addition and subtraction	Multiplication and division	Multiplication and division	Multiplication and division	Multiplication and division
	Find 1,000 more or less than a given	Add and subtract using column	Multiply and divide by 3,6 and 9.	Multiply and divide facts up to 12 x	Multiply and divide facts up to 12 x	Multiply and divide facts up to 12 x
	number.	methods.	NCETM unit 4	12.	12.	12.
	Count backwards through 0 to	Estimate and check calculations.	Recognise and use factor pairs.	NCETM unit 4 and 5	NCETM unit 4 and 5	NCETM unit 4 and 5
	include negative numbers.	Use column addition and	Multiply two-digit and three-digit	Fractions	Measurement	Multiplication and division
	Recognise PV of each digit in a	subtraction to solve 2 step	numbers by a one-digit number	Recognise and write decimal	Read, write and convert time	Divide up to three-digit by on-digit
	four-digit number.	problems.	using grid method.	equivalents of any number of tenths	between analogue and digital 12-	numbers when there is a remainder.
	Order and compare numbers beyond	NCETM unit 1	Divide up to three-digit numbers by	or hundreds.	and 24-hour clocks.	NCETM unit 12
	1,000.	Measurement	a one-digit number using the	Recognise and write decimal	Solve problems involving	Fractions - Recognise and write
	Identify, represent and estimate	Measure and calculate the perimeter	chunking method.	equivalents to 1/4 1/2 3/4.	converting times.	decimal equivalents of any number
	numbers using different	of a rectilinear shapes.	Solve problems involving	Solve simple measure and money	NCETM unit 11	of tenths or hundreds.
	representations.	NCETM unit 3	multiplying and adding,	problems involving fractions and	Geometry	Recognise and write decimal
	Round any number to the nearest	Multiplication and division	NCETM unit 6 and 12	decimals to 2 decimal places.	Describe positions on a 2-D grid as	equivalents to ½ ½ ¾.
	· · · · · · · · · · · · · · · · · · ·			NCETM unit 8 and 9		
4	10, 100 or 1,000.	Multiply and divide by 3,6 and 9.	Measurement		coordinates in the first quadrant.	Solve simple measure and money
4	Solve number and practical	NCETM unit 4	Find the area of rectilinear shapes	Measurement	Describe movements between	problems involving fractions and
	problems involving PV.	Multiply and divide by 10 and 100.	by counting squares.	Estimate, compare & calculate	positions as translations.	decimals to 2 decimal places.
	NCETM unit 2	Count up and down in hundredths;	Fractions	measure involving money.	Plot specified points and draw sides	NCETM unit 8 and 9
	Fractions	recognise that hundredths arise	Recognise and show, using	Geometry	to complete a given polygon.	
	Find the effect of dividing a one- or	when dividing an object by 100 and	diagrams, families of common	Compare and classify polygons.	NCETM unit 7	
	two-digit number by 10 and 100.	dividing tenths by 10.	equivalent fractions.	Identify and compare acute and	Statistics	
	Count up and down in 100ths;	Measurement	Solve problems involving fractions	obtuse angles.	Interpret and present discrete and	
	recognise that 100ths arise when	Conversions between different	of quantities, both unit and non-unit	Identify lines of symmetry in 2-D	continuous data.	
	dividing an object by 100 and	units.	fractions.	shapes presented in different	Solve comparison, sum and	
	dividing tenths by 10.		Add and subtract fractions.	orientations.	difference problems using different	
	Compare numbers with up to 2		NCETM unit 8 and 9	Complete a simple symmetric	representations.	
	decimal places.			figure.	1	
	Round decimals to the nearest			NCETM unit 10		
	whole number.					
	NCETM unit 9					
	Number	Addition and Subtraction	Fractions	Multiplication & division	Multiplication & division	Multiplication & division
	Number	Addition and Subtraction Add and subtract whole numbers		Multiplication & division Recognise square and cube	Multiplication & division Multiplying and dividing using	
	Number To know the value of each digit up to	Add and subtract whole numbers	Read and write decimal numbers as	Recognise square and cube	Multiplying and dividing using	Multiplying and dividing using
	Number To know the value of each digit up to 1,000,000. Using standard and non-	Add and subtract whole numbers and decimals using formal method	Read and write decimal numbers as			Multiplying and dividing using long multiplication and short
	Number To know the value of each digit up to 1,000,000. Using standard and non-standard partitioning.	Add and subtract whole numbers and decimals using formal method Use rounding to check accuracy.	Read and write decimal numbers as fractions and vice versa. NCETM Unit 6	Recognise square and cube numbers. Measurement	Multiplying and dividing using long multiplication and short division.	Multiplying and dividing using long multiplication and short division – focussing on division.
	Number To know the value of each digit up to 1,000,000. Using standard and nonstandard partitioning. To order and compare numbers.	Add and subtract whole numbers and decimals using formal method Use rounding to check accuracy. Multiplication & division	Read and write decimal numbers as fractions and vice versa. NCETM Unit 6 Rounding decimals to 1dp.	Recognise square and cube numbers. Measurement Estimate volume.	Multiplying and dividing using long multiplication and short division. NCETM Unit 4	Multiplying and dividing using long multiplication and short division – focussing on division. NCETM Unit 4
	Number To know the value of each digit up to 1,000,000. Using standard and nonstandard partitioning. To order and compare numbers. To round to the nearest 10, 100, 1000,	Add and subtract whole numbers and decimals using formal method Use rounding to check accuracy. Multiplication & division Identify factors and multiples and	Read and write decimal numbers as fractions and vice versa. NCETM Unit 6 Rounding decimals to 1dp. Measurement	Recognise square and cube numbers. Measurement Estimate volume. Geometry	Multiplying and dividing using long multiplication and short division. NCETM Unit 4 Fractions	Multiplying and dividing using long multiplication and short division – focussing on division. NCETM Unit 4 Problem solving using all four
	Number To know the value of each digit up to 1,000,000. Using standard and nonstandard partitioning. To order and compare numbers. To round to the nearest 10, 100, 1000, etc	Add and subtract whole numbers and decimals using formal method Use rounding to check accuracy. Multiplication & division Identify factors and multiples and recall prime numbers. NCETM	Read and write decimal numbers as fractions and vice versa. NCETM Unit 6 Rounding decimals to 1dp. Measurement Unit conversion.	Recognise square and cube numbers. Measurement Estimate volume. Geometry Identify 3D shapes from 2D	Multiplying and dividing using long multiplication and short division. NCETM Unit 4 Fractions To know the percentage	Multiplying and dividing using long multiplication and short division – focussing on division. NCETM Unit 4 Problem solving using all four operations and scaling using simple
	Number To know the value of each digit up to 1,000,000. Using standard and nonstandard partitioning. To order and compare numbers. To round to the nearest 10, 100, 1000, etc To multiply and divide numbers to	Add and subtract whole numbers and decimals using formal method Use rounding to check accuracy. Multiplication & division Identify factors and multiples and recall prime numbers. NCETM Unit 7	Read and write decimal numbers as fractions and vice versa. NCETM Unit 6 Rounding decimals to 1dp. Measurement Unit conversion. NCETM Unit 9	Recognise square and cube numbers. Measurement Estimate volume. Geometry Identify 3D shapes from 2D representations.	Multiplying and dividing using long multiplication and short division. NCETM Unit 4 Fractions To know the percentage equivalence for fractions and	Multiplying and dividing using long multiplication and short division – focussing on division. NCETM Unit 4 Problem solving using all four operations and scaling using simple fractions.
	Number To know the value of each digit up to 1,000,000. Using standard and nonstandard partitioning. To order and compare numbers. To round to the nearest 10, 100, 1000, etc To multiply and divide numbers to different powers of 10.	Add and subtract whole numbers and decimals using formal method Use rounding to check accuracy. Multiplication & division Identify factors and multiples and recall prime numbers. NCETM Unit 7 Multiply & divide numbers up to	Read and write decimal numbers as fractions and vice versa. NCETM Unit 6 Rounding decimals to 1dp. Measurement Unit conversion. NCETM Unit 9 Common imperial to metric	Recognise square and cube numbers. Measurement Estimate volume. Geometry Identify 3D shapes from 2D representations. Draw, measure and work out	Multiplying and dividing using long multiplication and short division. NCETM Unit 4 Fractions To know the percentage equivalence for fractions and decimals.	Multiplying and dividing using long multiplication and short division – focussing on division. NCETM Unit 4 Problem solving using all four operations and scaling using simple fractions. Geometry
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Divide numbers up to 4 digits by a twodigit number using the formal written method.

NCETM unit 5

Perform mental calculations. Identify common factors, common multiples and prime numbers. Use their knowledge of the order of operations to carry out calculations involving the 4 operations.

NCETM unit 12

Solve addition and subtraction multistep problems in contexts.

NCETM unit 1

Solve problems involving addition, subtraction, multiplication and division. Use estimation to check answers to calculations and determine an appropriate degree of accuracy.

Use common factors to simplify fractions; use common multiples to express fractions in the same denomination.

Compare and order fractions, including fractions >1.

Add and subtract fractions with

Add and subtract fractions with different denominators and mixed numbers.

Multiply simple pairs of proper fractions, writing the answer in its simplest form.

Divide proper fractions by whole numbers.

Associate a fraction with division and calculate decimal fraction equivalents.

Identify the value of each digit in numbers given to 3 decimal places and multiply and divide numbers by 10, 100 and 1,000 giving answers up to 3 decimal places. Multiply one-digit numbers with up to 2 decimal places by whole numbers.

Use written division methods in cases where the answer has up to 2 decimal places.

Solve problems which require answers to be rounded to specified degrees of accuracy. Recall and use equivalences

Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.

NCETM unit 7

Solve problems involving the calculation of percentages and the use of percentages for comparison. Solve problems involving similar shapes where the scale factor is known or can be found. Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.

NCETM unit 9

Algebra

Use simple formulae.
Generate and describe linear number sequences.
Express missing number problems algebraically.

Find pairs of numbers that satisfy an equation with 2 unknowns. Enumerate possibilities of combinations of 2 variables.

NCETM unit 11

Measurement

Solve problems involving the calculation and conversion of units of measure, using decimal notation up to 3 decimal places where appropriate.

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.

NCETM unit 6

Calculate, estimate and compare volume of cubes and cuboids using standard units.

and sizes and find unknown angles in polygons.

Illustrate and name parts of circles. Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles.

NCETM unit 4