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Year I	Place Value (3 weeks)
	Addition and Subtraction (3 weeks)
National	Count to and across 100, forwards and backwards, beginning with zero or 1, or
National	from any given number Identify and represent numbers using objects and
Curriculum	pictorial representations including the number line, and use the language of: equal
	to, more than, less than (fewer), most, least.
	Count, read and write numbers to 100 in numerals; count in multiples of 2s, 5s
	and IOs
	Read and write numbers from 1 to 20 in numerals and words
	Given a number, identify I more and I less
	Read, write and interpret mathematical statements involving addition (+),
	subtraction (–) and equals (=) signs
	Add and subtract I-digit and 2-digit numbers to 20, including zero
	Represent and use number bonds and related subtraction facts within 20
	Solve one-step problems that involve addition and subtraction, using concrete
	objects and pictorial representations, and missing number problems such as 7 = ?
	-9
	To count to and within 20.
	To develop an understanding of ten (ten ones and bonds)
	To develop an understanding of 11,12 and 13
	understanding of 14,15 and 16
	To develop an understanding of 17,18 and 19
Core Knowledge	To develop an understanding of 20
	To find one more and one less
	To use a number line to count to and within 20
	To estimate position on a number line to and within 20.
	To compare numbers to 20
	To order numbers to 20
	To add by counting on within 20
	To add ones using number bonds
	To find and make number bonds to 20
	To find doubles and near doubles by adding
	To subtract ones using number bonds
	To subtract by counting back
	To subtract by finding the difference
	To explore and find related + and - facts
	Counting forwards and backwards within 20
	Using a number line
Skills	Using a tens frame
	Subitise using concrete objects
	Number ten frame count forwards backwards different tens ones numerals
Vocabulary	words part whole same different less more change represent mark number line
	start end greater less jump estimate compare greatest smallest notice number
	bonds doubles near doubles objects number sentence pattern

Year 2	Money (2 Weeks)
	Multiplication and Division (4 Weeks)





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Multiplication and Division B (3 Weeks)
Multiplication and Division B (3 Weeks) Length and Perimeter (3 Weeks)
Recall and use multiplication facts for the 2, 5 and 10 multiplication tables,
including recognising odd and even numbers
Write and calculate mathematical statements for multiplication and division using
the multiplication tables that they know, including for 2-digit numbers times 1- digit numbers, using mental and progressing to formal written methods
Solve problems, including missing number problems, involving multiplication and
division, including positive integer scaling problems and correspondence
problems in which n objects are connected to m objects
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);
volume/capacity (l/ml)
Measure, compare, add and subtract: lengths (m/cm/mm); mass (kg/g);
volume/capacity (l/ml)
Measure the perimeter of simple 2-D shapes
Calculate and identify multiples of ten
To identify related multiplication problems.
To compare multiplication sentences.
To multiply a two digit number by a one digit number
To make links between multiplication and division
Divide a 2 digit number by a l digit number (including remainders)
To multiply using 'scaling'
To identify all possibilities for solving a problem
To measure in mm, cm and m.
To identify equivalent lengths (m to cm and mm to cm)
To compare lengths
To add and subtract lengths
To measure and calculate perimeter
Make equal groups
Group and share objects equally
Use a bar model
Count in repeated steps.
To use a ruler/tape measure to measure in mm, cm and m
Equal/equally unequal groups arrays altogether multiplication multiple lots before
previous after odd even bar model multiply divide strategy relationship
Place value chart calculation increase decrease partition tens ones flexibly
partition divide division remainder possibilities combinations
Measure ruler length millimetres centimetres metres equipment long measure
height intervals partition convert equivalent units perimeter grid square sides
equal

Year 4	Multiplication and Division B (3 Weeks)
	Length and Perimeter (2 Weeks)





	Multiplication and division
National Curriculum	Multiplication and divisionRecognise and use factor pairs and commutativity in mental calculationsRecall multiplication and division facts for multiplication tables up to 12 × 12Multiply and divide whole numbers and those involving decimals by 10, 100 and1,000 (Y5)Solve problems involving multiplying and adding, including using the distributivelaw to multiply 2-digit numbers by 1 digit, integer scaling problems and hardercorrespondence problems such as n objects are connected to m objectsMultiply 2-digit and 3-digit numbers by a 1-digit number using formal writtenlayoutUse place value, known and derived facts to multiply and divide mentally,
	including: multiplying by 0 and 1; dividing by 1; multiplying together 3 numbers Length and Perimeter Convert between different units of measure [for example, kilometre to metre; hour to minute] Measure and calculate the perimeter of a rectilinear figure (including squares) in centimetres and metres
Core Knowledge	Multiplication and division Identify, calculate and use factor pairs Multiply and divide by 10 and 100 Identify, calculate and use related multiplication facts (multiples of 10 and 100) Use formal methods for calculating 2 and 3 digit by 1 digit multiplications. Divide a 2 or 3 digit number by a one digit number, including questions with or
	without remainders. To use multiplication to solve correspondence problems. To use efficient methods for multiplication. Length and Perimeter To measure in km and m
	To identify and calculate equivalent lengths (km and m) To calculate perimeter using a grid To calculate the perimeter of rectangles, rectilinear shapes and polygons. To find missing lengths in rectilinear shapes.
Skills	Partitioning numbers Multiply a one digit number by a one digit number Use a place value chart Use a number line
5	Use a ruler Identify fractions Identify regular and irregular shapes Multiply multiple factor factor pairs altogether whole number calculate equivalent
Vocabulary	calculation placeholder dividing division remainder one tenth one hundredth represent digit column ones tens hundreds exchange partition possibilities combinations
	Length kilometre metre greater than less than equivalent fraction convert conversion grid perimeter measure label rectangle rectilinear strategies horizontal vertical part whole equilateral triangle symmetrical pentagon hexagon octagon decagon





Year 5	Multiplication and Division (3 Weeks)
	Fractions B (2 Weeks
National Curriculum	Multiply numbers up to four digits by a 1- or 2-digit number using a formal written method, including long multiplication for 2-digit numbers Divide up to four digits by a 1-digit number using the formal written method of short division and interpret remainders appropriately for the context Solve problems involving multiplication and division, including using their knowledge of factors and multiples, squares and cubes
	Multiply proper fractions and mixed numbers by whole numbers, supported by materials and diagrams Solve problems involving increasingly harder fractions to calculate quantities, and fractions to divide quantities, including non-unit fractions where the answer is a whole number (Y4)
Core Knowledge	Multiply a 4 digit number by a one digit number Multiply a 2 digit number by a 2 digit number Multiply a 3 digit number by a 2 digit number Multiply a 4 digit number by a 2 digit number Divide a 4 digit number by a one digit number Divide with remainders Use efficient division methods Solve multiplication and division problems
	Multiply a unit fraction by an integer Multiply a non-unit fraction by an integer Multiply a mixed number by an integer Calculate a fraction by a quantity Calculate a fraction of an amount Find the whole from a fraction of an amount Use fractions as operators
Skills	Use a place value chart Represent numbers with concrete objects Partition numbers Use a bar model Multiply and divide by one digit numbers
Vocabulary	Written method representation exchange multiply multiplication digit partition area model estimate calculate strategy divide remainder short division compare compared Multiplication repeated addition represent bar model integer mixed number improper fraction numerator denominator multiply bar model partition simplest form equal groups efficient method

Year 6	Ratio (2 weeks)
	Algebra (2 Weeks)
	Decimals 2 Weeks





	Solve problems involving the relative sizes of two quantities where missing values
National	can be found by using integer multiplication and division facts
Curriculum	Solve problems involving unequal sharing and grouping using knowledge of
	fractions and multiples
	Solve problems involving similar shapes where the scale factor is known or can
	be found
	Solve problems involving the relative sizes of two quantities where missing values
	can be found by using integer multiplication and division facts
	Use simple formulae
	Generate and describe linear number sequences
	Find pairs of numbers that satisfy an equation with two unknowns Enumerate
	possibilities of combinations of two variables Express missing number problems algebraically
	Find pairs of numbers that satisfy an equation with two unknowns Enumerate
	possibilities of combinations of two variables
	possibilities of combinations of two variables
	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
	Solve problems which require answers to be rounded to specified degrees of
	accuracy
	Solve addition and subtraction multi-step problems in contexts, deciding which
	operations and methods to use and why
	Multiply I-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
	Use written division methods in cases where the answer has up to 2 decimal
	places
	Solve problems involving addition, subtraction, multiplication and division
	Explore the relationship between numbers (additive and multiplicative)
	Use the language of ratio to describe two amounts
	To use the ratio symbol to describe two values
	To explore the relationship between ration and fractions
	To use knowledge of ratio to draw scale diagrams
Core Knowledge	To calculate and solve problems using scale factors
	To explore the relationship between similar shapes (scale factors)
	To solve problems involving ratio
	To solve one and two step proportion problems
	Solve algebraic problems using function machines
	Solve algebraic problems using function machines To form algebraic expressions
	To find values of expressions by substituting numbers
	To recognise the difference between formulae and expressions.
	To calculate using formulae and expressions
	To form equations from diagrams and descriptions
	To solve one step equations
	To solve two step equations
	To find pairs of values
	To solve problems with two unknowns
	To represent, identify and partition numbers with up to 3 decimal places.
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To represent, identify and partition numbers with up to 3 decimal places (greater
than I)
To round decimals to the nearest integer or one decimal place
To add and subtract decimals with up to 3 decimal places
To multiply numbers with up to 2 decimal places by 10, 100 or 1000
To divide numbers with up to 3 decimal places by 10, 100 or 1000
To multiply and divide decimals by integers
To multiply and divide decimals in context
Using a number line
Add, multiply, subtract and divide accurately
Use a bar model
Measure with a ruler
Measure with a protractor
To partition numbers using a place value chart
To represent numbers using concrete objects
Relationship addition multiplication additive multiplicative sequence size relate
ratio rearrange common factor simpler simplest form fraction similar different
parts altogether scale scale factor diagram represent enlargement dimensions
shape angles corresponding orientation recipe amount ingredient
Function machine input output difference inverse rule order represent
expression substitute value formulae equation represent pairs possibilities
Decimal represent tenths hundredths thousandths digit value greater less round
integer multiple exchange counters
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