National Curriculum Year 2	Ready to Progress	White Rose Workbook & Step	Curriculum Prioritisation	NCETM Spine
Number & Place Value				
Counting				
2.1a count in steps of 2, 3, and 5 from 0, and in 10s from any number, forward and backward		**Autumn 1 Place value** 1 Numbers to 20 2 Count objects to 100 by making 10s 15 Count in 2s, 5s and 10s 16 Count in 3s		
Represent				
2.1c identify, represent and estimate numbers using different representations, including the number line	**2NPV-2** Reason about the location of any two-digit number in the linear number system, including identifying the previous and next multiple of 10	**Autumn 1 Place value** 9 10s on the number line to 100 10 10s and 1s on the number line to 100 11 Estimate numbers on a number line	**Unit 1** Numbers 10 to 100	1.9 Composition of numbers: 20–100
2.1e read and write numbers to at least 100 in numerals and in words		**Autumn 1 Place value**		
Use Place Value & Compare				
2.1b recognise the place value of each digit in a two-digit number (10s, 1s)	**2NPV-1** Recognise the place value of each digit in two-digit numbers and compose and decompose two-digit numbers using standard and non-standard partitioning.	**Autumn 1 Place value** 3 Recognise tens and ones 4 Use a place value chart 5 Partition numbers to 100 6 Write numbers to 100 in words 7 Flexibly partition numbers to 100 8 Write numbers to 100 in expanded form		1.8 Composition of numbers: multiples of 10 up to 100
2.1d compare and order numbers from 0 up to 100; use <, > and = signs		12 Compare objects 13 Compare numbers 14 Order objects and numbers		
Problem solving & Rounding				
2.1f use place value and number facts to solve problems.		**Autumn 1 Place value**		
Addition and subtraction				
Recall, Represent, Use				
2.2b recall and use addition and subtraction **facts to 20** fluently, and derive and use related **facts up to 100**			**Unit 2** Calculations within 20	1.11 Addition and subtraction: bridging 10 1.12 Subtraction as difference
2.2d show that addition of 2 numbers can be done in any order (commutative) and subtraction of one number from another cannot	**2NF-1** Secure fluency in addition and subtraction facts within 10, through continued practice.	**Autumn 2 Addition & subtraction** 1 Bonds to 10 2 Fact families - addition and subtraction bonds within 20 3 Related facts 4 Bonds to 100 (tens) 5 Add and subtract 1s 6 Add by making 10 7 Add three 1-digit numbers 8 Add to the next 10	**Unit 3** Fluently add and subtract within 10	1.7 Addition and subtraction: strategies within 10
2.2e recognise and use the **inverse relationship** between addition and subtraction and use this to check calculations and solve missing number problems.				

Calculations				
2.2c add and subtract numbers using concrete objects, pictorial representations, and mentally, including: • a two-digit number and 1s • a two-digit number and 10s • 2 two-digit numbers • adding 3 one-digit numbers	**2AS-1** Add and subtract across 10.	**Autumn 2 Addition & subtraction** 9 Add across a 10 10 Subtract across 10 11 Subtract from a 10 12 Subtract a 1-digit number from a 2-digit number (across a 10)	**Unit 4** Addition and subtraction of two-digit numbers (1)	1.13 Addition and subtraction: two-digit and single-digit numbers 1.14 Addition and subtraction: two-digit numbers and multiples of ten
	2AS-3 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract only ones or only tens to/from a two-digit number. Add and subtract within 100	13 10 more, 10 less 14 Add and subtract 10s		
	2AS-4 Add and subtract within 100 by applying related one-digit addition and subtraction facts: add and subtract any 2 two-digit numbers.	15 Add two 2-digit numbers (not across a 10) 16 Add two 2-digit numbers (across a 10) 17 Subtract two 2-digit numbers (not across a 10) 18 Subtract two 2-digit numbers (across a 10) 19 Mixed addition and subtraction	**Unit 8** Addition and subtraction of two-digit numbers (2)	1.15 Addition: two-digit and two-digit numbers 1.16 Subtraction: two-digit and two-digit numbers
Problem solving				
2.2a solve problems with addition and subtraction: • using concrete objects and pictorial representations, including those involving numbers, quantities and measures • applying their increasing knowledge of mental and written methods	**2AS-2** Recognise the subtraction structure of 'difference' and answer questions of the form, "How many more…?".	**Autumn 2 Addition & subtraction** 20 Compare number sentences 21 Missing number problems		
Multiplication and Division				
Recall, Represent, Use				
2.3a recall and use multiplication and division facts for the 2, 5 and 10 multiplication tables, including recognising odd and even numbers	**2MD-1** Recognise repeated addition contexts, representing them with multiplication equations and calculating the product, within the 2, 5 and 10 multiplication tables.	**Spring 2 Multiplication & division** 4 Introduce the multiplication symbol 5 Multiplication sentences 9 The 2 times-table 10 Divide by 2 13 The 10 times-table 14 Divide by 10 15 The 5 times-table 16 Divide by 5 17 The 5 and 10 times-tables	**Unit 5** Introduction to multiplication	2.2 Structures: multiplication representing equal groups 2.3 Times tables: groups of 2 and commutativity (part 1) 2.4 Times tables: groups of 10 and of 5, and factors of 0 and 1
2.3c show that multiplication of 2 numbers can be done in any order (commutative) and division of 1 number by another cannot				
Calculations				
2.3b calculate mathematical statements for multiplication and division within the multiplication tables and write them using the multiplication (×), division (÷) and equals (=) signs	**2MD-2** Relate grouping problems where the number of groups is unknown to multiplication equations with a missing factor, and to division equations (quotative division).	**Spring 2 Multiplication & division** 1 Recognise equal groups 2 Make equal groups 3 Add equal groups 6 Use arrays 7 Make equal groups – grouping 8 Make equal groups – sharing 11 Doubling and halving 12 Odd and even numbers	**Unit 6** Introduction to division structures	2.6 Structures: quotative and partitive division

Solve Problems				
2.3d solve problems involving multiplication and division, using materials, arrays, repeated addition, mental methods, and multiplication and division facts, including problems in contexts.		**Spring 2 Multiplication & division**	**Unit 13** Multiplication and division – doubling, halving, quotative and partitive division	2.5 Commutativity (part 2), doubling and halving 2.6 Structures: quotative and partitive division
Fractions (including decimals & percentages)				
Recognise and Write				
2.4a recognise, find, **name and write fractions 1/3, 1/4, 2/4 and 3/4** of a length, shape, set of objects or quantity		**Summer 1 Fractions** 1 Introduction to parts and whole 2 Equal and unequal parts 3 Recognise a half 4 Find a half 5 Recognise a quarter 6 Find a quarter 7 Recognise a third 8 Find a third 9 Find the whole	**Unit 10** Fractions	3.0 Guidance on the teaching of fractions in KS1
Comparing fractions				
2.4b write simple fractions, for example 1/2 of 6 = 3 & recognise the equivalence of 2/4 and 1/2.		**Summer 1 Fractions** 10 Unit fractions 11 Non-unit fractions 12 Recognise the equivalence of a half and two-quarters 13 Recognise three-quarters 14 Find three-quarters 15 Count in fractions up to a whole		
Measurement				
Using Measures				
3.1a choose and use appropriate **standard units** to estimate and measure length/height in any direction (m/cm);, using rulers 3.1b compare and order **lengths,** and record the results using >, < and =		**Spring 3 Length & height** 1 Measure in centimetres 2 Measure in metres 3 Compare lengths and heights 4 Order lengths and heights 5 Four operations with lengths and heights	**Unit 14** Sense of measure – capacity, volume, mass	
3.1a choose and use appropriate **standard units** to estimate and measure mass (kg/g); temperature (°C); using scales 3.1b compare and order **mass,** and record the results using >, < and =		**Spring 4 Mass, capacity & temperature** 1 Compare mass 2 Measure in grams 3 Measure in kilograms 4 Four operations with mass		
3.1a choose and use appropriate **standard units** to estimate and measure capacity (litres/ml) to the nearest appropriate unit, using measuring vessels 3.1b compare and order **volume/capacity** and record the results using >, < and =		**Spring 4 Mass, capacity & temperature** 5 Compare volume and capacity 6 Measure in millilitres 7 Measure in litres 8 Four operations with volume and capacity		
3.1a choose and use appropriate **standard units** to estimate and measure temperature (°C); to the nearest appropriate unit, using thermometers		**Spring 4 Mass, capacity & temperature** 9 Temperature		
Money				
3.1c recognise and use **symbols for pounds** (£) and **pence** (p); combine amounts to make a particular value		**Spring 1 Money** 1 Count money – pence	**Unit 9** Money	

		2 Count money – pounds (notes and coins) 3 Count money – pounds and pence 4 Choose notes and coins		
3.1d find different **combinations of coins** that equal the same amounts of money		5 Make the same amount 6 Compare amounts of money		
3.1e solve simple problems in a practical context involving addition and subtraction of money of the same unit, including giving change		7 Calculate with money 8 Make a pound 9 Find change 10 Two-step problems		
Time				
3.1f compare and sequence **intervals of time**		**Summer 2**	**Unit 11** Time	
3.1g 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.		1 O'clock and half past 2 Quarter past and quarter to 3 Tell the time past the hour 4 Tell the time to the hour 5 Tell the time to 5 minutes		
3.1h know the number of **minutes in an hour** and the number of **hours in a day**		6 Minutes in an hour 7 Hours in a day		
Perimeter, Area, Volume				
	2G-1 Use precise language to describe properties of 2D & 3D shapes and compare shapes		**Unit 7** Shape	
Geometry				
2-D Shapes				
3.2a identify and describe the properties of 2-D shapes, including the **number of sides** and **line symmetry** in a vertical line	**2G-1** Use precise language to describe properties of 2D & 3D shapes and compare shapes	**Autumn 3 Shape** 1 Recognise 2-D and 3-D shapes 2 Count sides on 2-D shapes 3 Count vertices on 2-D shapes 4 Draw 2-D shapes 5 Lines of symmetry on shapes 6 Use lines of symmetry to complete shapes		
3.2d compare and sort common 2-D … shapes and everyday objects.		7 Sort 2-D shapes		
3-D Shapes				
3.2b recognise and name common 3-D shapes including **cubes, cuboids, pyramids and spheres**		**Autumn 3 Shape** 8 Count faces on 3-D shapes 9 Count edges on 3-D shapes 10 Count vertices on 3-D shapes		
3.2c identify 2-D shapes on the surface of 3-D shapes				
3.2d compare and sort common … 3-D shapes and everyday objects.		11 Sort 3-D shapes 12 Make patterns with 2-D and 3-D shapes		
Position & Direction				
3.3a order and arrange combinations of mathematical objects in patterns and sequences		**Summer 4 Position & direction**	**Unit 12** Position & direction	
3.3b use mathematical vocabulary to describe position, direction and movement including movement in a straight line and distinguishing		**Summer 4 Position & direction** 1 Language of position 2 Describe movement		

between **rotation** as a turn and in terms of right angles for quarter, half and three-quarter turns (clockwise and anti-clockwise).		3 Describe turns 4 Describe movement and turns 5 Shape patterns with turns	
Statistics			
Present and Interpret			
4.1a interpret and construct simple **pictograms, tally charts, block diagrams and tables**		**Summer 3 Statistics** 1 Make tally charts 2 Tables 3 Block diagrams 4 Draw pictograms (1–1) 5 Interpret pictograms (1–1) 6 Draw pictograms (2, 5 and 10) 7 Interpret pictograms (2, 5 and 10)	
Solve Problems			
4.1b ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity			
4.1c ask and answer questions about totalling and comparing categorical data.			