White Rose Scheme of learning and the NCETM PD materials Year 1 - 6

1. Number, Addition and Subtraction

2. Multiplication and Division

3. Fractions
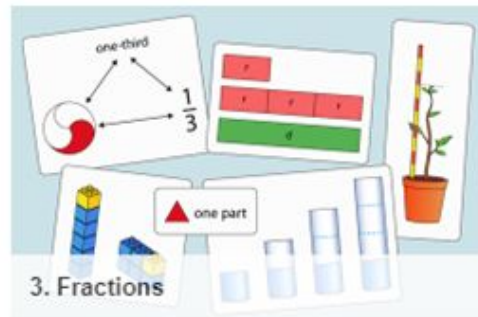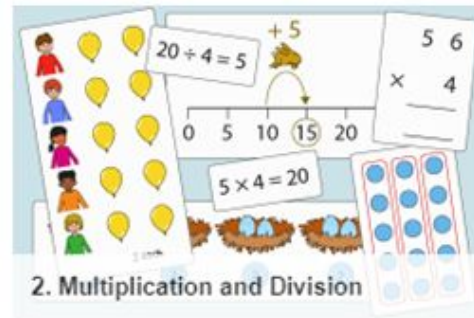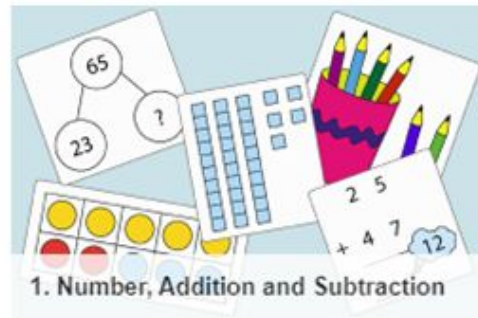
A guide to which NCETM spines sit within White Rose blocks for each year group. This is for initial guidance and will be reviewed again to ensure mapping is fully accurate.

NOTE: There are not explicit NCETM strands for shape, statistics etc; however, these areas are weaved within the strands in representations and examples etc.The NCETM curriculum resource tool can also be used for further examples.

NCETM curriculum resource tool https://www.ncetm.org.uk/resources/41211
NCETM spine materials https://www.ncetm.org.uk/resources/50639
NCETM sequence https://www.ncetm.org.uk/files/109551480/ncetm_primarymasterypd_teaching_sequence.pdf
White Rose scheme of learning https://whiterosemaths.com/resources/schemes-of-learning/primary-sols/

Year 1

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
A U T U M N	White Rose: Number: Place Value (within 10) NCETM 1.1 Composition of quantities and measures 1.2 Introducing 'whole' and 'parts 1.3 Composition of number 0-5 1.4 Composition of numbers 6 -10				White Rose: Number: Addition and Subtraction (within 10) NCETM 1.5 Additive structures: introduction to aggregation and partitioning 1.6 Additive structures: introduction to augmentation and reduction 1.7 Addition and subtraction: strategies within 10				White Rose: Shape	White Rose: Number: Place Value within 20 NCETM: 1.8 Composition of numbers: multiples of 10 up to 100 1.9 Composition of numbers 20 -100 1.10 Composition of numbers 11-19		C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S P R I N G	White Rose: Number: Addition and Subtraction within 20				White Rose: Number: Place Value (within 50) (Multiples of 2, 5, 10) NCETM: Remind of 1.8, 1.9, 1.10 2.1 Counting, unitising and coins			White Rose: Measurement: Length and Height		White Rose: Measurement: Weight and Volume s		C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S U M M E R	White Rose: : Multiplication and Division (reinforce multiples of 2, 5, 10) NCETM: Recap 2.1			White Rose: Number: Fractions		White Rose: Position and direction	White Rose: Place Value: Within 100 NCETM: Recap 1.8 and 1.9		White Rose: Measures: Money		White Rose: Measures: Time	C O N S O L I D A T I O N

Year 2

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
A U T U M N	White Rose Number :Place Value NCETM (see Year 1 and notes from addition and subtraction too)			White Rose Number : Addition and Subtraction NCETM 1.11 Addition and subtraction: bridging 10 1.12 Subtraction as difference 1.13 Addition and subtraction: two-digit and single-digit numbers 1.14 Addition and subtraction: two-digit numbers and multiples of ten 1.15 Addition: two-digit and two-digit numbers 1.16 two-digit and two-digit numbers					White Rose Measurement: Money		White Rose Number : Multiplication and Division NCETM 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 2.5 (some) Commutativity (part 2), doubling and halving	

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
S P R I N G	White Rose Number : Multiplication and division NCETM		White Rose Number : Statistics		White Rose Geometry: properties of shape			White Rose Number : Fractions NCETM Guidance on the teaching of fractions in Key Stage 1			White Rose Measurement: length and height	C O N S O L

2. 5 (some) [Commutativity (part 2), doubling and halving](#)
2 . 6 [Structures: quotitive and partitive division](#)

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S U M M E R	White Rose Geometry: [position and direction](#)			Problem solving and efficient methods		White Rose Measurement: [Time](#)		White Rose Measurement: [Mass, capacity and temperature](#)			Investigations	

Year 3

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
A U T U M N	White Rose Number :Place Value NCETM 1.1 7 (some) Composition and calculation: 100 and bridging 100 1. .1 8 (most) Composition and calculation: three digit numbers			White Rose Number : Addition and Subtraction NCETM 1.1 7 (some) Composition and calculation: 100 and bridging 100 1. .1 8 (some) Composition and calculation: three digit numbers 1.1 9 Securing mental strategies: calculation up to 999 1. 2.0 Algorithms: column addition 1. 2 1 Algorithms: column subtraction					White Rose Number : Multiplication and Division NCETM 2 . 7 Times tables: 2, 4 and 8, and the relationship between them 2 . 8 Times tables: 3, 6 and 9, and the relationship between them 2 . 9 Times tables: 7 and patterns within/across times tables			C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
S P R I N G	White Rose Number : Multiplication and Division			White Rose Measurement: money	White Rose Statistics		White Rose Measurement: length and perimeter			White Rose Number : Fractions NCETM 3 . 1 Preparing for fractions: the part–whole relationship 3 . 2 Unit fractions: identifying, representing and comparing		C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S U M M E R	White Rose Number : Fractions NCETM 3 . 3 Non-unit fractions: identifying, representing and comparing 3 . 4 Adding and subtracting within one whole			White Rose Measurement: Time			White Rose Geometry: properties of shape		White Rose Measurement: Mass and capacity			C O N S O L I D A T I O N

Year 4

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
A U T U M N	White Rose Number :Place Value NCETM 1.22 Composition and calculation: 1,000 and four-digit numbers				White Rose Number : Addition and subtraction NCETM			White Rose Measurement: length and perimeter NCETM 2.16 (some) Multiplicative contexts: area and perimeter 1	White Rose Number : Multiplication and Division NCETM 2.10 Connecting multiplication and division, and the distributive law 2.11 Times tables: 11 and 12 2.13 Calculation: multiplying and dividing by 10 or 100			C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S P R I N G	White Rose Number : Multiplication and Division NCETM 2.12 Division with remainders 2.14 Multiplication: partitioning leading to short multiplication 2.17 (here or after area and perimeter) Structures: using measures and comparison to understand scaling			White Rose Measurement: Area NCETM 2.16 (some) Multiplicative contexts: area and perimeter	White Rose Number : Fractions NCETM 3.5 Working across one whole: improper fractions and mixed numbers 3.6 Multiplying whole numbers and fractions				White Rose Number : Decimals NCETM 1.23 Composition and calculation: tenths 1.24 (some) Composition and calculation: hundredths and thousandths			C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S U M M E R	White Rose Number : Decimals NCETM Recap 1 . 2 3 Composition and calculation: tenths Recap 1 . 2 4 Composition and calculation: hundredths and thousandths		White Rose Measurement: money NCETM 1 . 2 5 Addition and subtraction: money		White Rose Measurement: Time	White Rose Statistics		White Rose Geometry: properties of shape			White Rose Geometry: position and direction	C O N S O L I D A T I O N

Year 5

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
A U T U M N	White Rose Number :Place Value NCETM 1.2 6 Composition and calculation: multiples of 1,000 up to 1,000,000 1.2 7 Negative numbers: counting, comparing and calculating			White Rose Number : Addition and Subtraction NCETM 1.2 8 Common structures and the part–part–whole relationship 1.2 9 Using equivalence and the compensation property to calculate		White Rose: Statistics		White Rose Number : Multiplication and division NCETM 2.18 Using equivalence to calculate 2.21Factors, multiples, prime numbers and composite numbers 2.22 Combining multiplication with addition and subtraction		White Rose Measurement: Perimeter and Area		C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S P R I N G	White Rose Number : Multiplication and division			White Rose Number : Fractions NCETM 3.7 Finding equivalent fractions and simplifying fractions 3.8 Common denomination: more adding and subtracting						White Rose Number : Decimals and percentages		C O N S O L I D A T

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S U M M E R	White Rose Number : Decimals NCETM 2.19 Calculation: x/÷decimal fractions by whole numbers				White Rose Geometry : Properties of Shape			White Rose Geometry: position and direction	White Rose Measurement: converting units		White Rose Measurement: volume NCETM 2.20 Multiplication with three factors and volume	C O N S O L I D A T I O N

Year 6

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
A U T U M N	White Rose Number : Place Value NCETM 1.30 Composition and calculation: numbers up to 10,000,000		White Rose Number: Addition, subtraction, Multiplication and Division NCETM Some 1.30 Composition and calculation: numbers up to 10,000,000 2.23 Multiplication strategies for larger numbers and long multiplication 2.24 Division: dividing by two-digit divisors (some 2.25) Using compensation to calculate 2.28 Combining division with addition and subtraction				White Rose Number: Fractions NCETM 3.9 Multiplying fractions and dividing fractions by a whole number				White Ros Geometry: position and direction:	C O N S O L I D A T I O N

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S P R I N G	White Rose Number : Decimals NCETM 2.29 Decimal place-value knowledge, multiplication and division 3.10 Linking fractions, decimals and percentages		White Rose Number : Percentages NCETM 3.10 Linking fractions, decimals and percentages		White Rose Number : Algebra NCETM 1.31 Problems with two unknowns		White Rose Measurement: Converting units NCETM 3.10 Linking fractions, decimals and	White Rose Measurement: Converting units NCETM 3.10 Linking fractions, decimals and percentages NCETM- curriculum resource tool		White Rose Number : Ratio NCETM 2.25 Using compensation to calculate 2.27 Scale factors, ratio and proportional reasoning		C O N S O L I D A T I O N

					percent ages NCETM-curricul um resourc e tool							

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week10	Week 11	Week 12
S U M M E R	White Rose Geometry: properties of shape NCETM 2 . 30	White Rose Statistics NCETM 2 . 26 Mean average and equal shares	Revision	SATs week	White Rose Geometr y: properti es of shape NCETM-curriculu m resource tool	White Rose Statistics NCETM 2 . 26 Mean average and equal shares	Problem solving and entrepreneur *Embedding skills prior to secondary and cross stage transition*			Investigations *Embedding skills prior to secondary and cross stage transition*		C O N S O L I D A T I O N