Small steps

Year 3

White Rose
MATHS

Autumn Block 1

Place value

Small steps

Step 1	Represent numbers to 100
Step 2	Partition numbers to 100
Step 3	Number line to 100
Step 4	Hundreds
Step 5	Represent numbers to 1,000
Step 6	Partition numbers to 1,000
Step 7	Flexible partitioning of numbers to 1,000
Step 8	Hundreds, tens and ones

White Rose MATHS

Small steps

Step 9	Find 1, 10 or 100 more or less
Step 10	Number line to 1,000
Step 11	Estimate on a number line to 1,000
Step 12	Compare numbers to 1,000
Step 13	Order numbers to 1,000
Step 14	Count in 50s

White Rose MATHS

Autumn Block 2

Addition and subtraction

White Rose
MATHS

Small steps

Step 1	Apply number bonds within 10
Step 2	Add and subtract 1s
Step 3	Add and subtract 10s
Step 4	Add and subtract 100s
Step 5	Spot the pattern
Step 6	Add 1s across a 10
Step 7	Add 10s across a 100
Step 8	Subtract 1s across a 10

White Rose MATHS

Small steps

Step 9	Subtract 10s across a 100
Step 10	Make connections
Step 11	Add two numbers (no exchange)
Step 12	Subtract two numbers (no exchange)
Step 13	Add two numbers (across a 10)
Step 14	Add two numbers (across a 100)
Step 15	Subtract two numbers (across a 10)
Step 16	Subtract two numbers (across a 100)

White Rose MATHS

Small steps

Step 17   Add 2-digit and 3-digit numbers

Step 18   Subtract a 2-digit number from a 3-digit number

Step 19   Complements to 100

Step 20   Estimate answers

Step 21   Inverse operations

Step 22   Make decisions

White Rose MATHS

Autumn Block 3

Multiplication and division A

White Rose
MATHS

Small steps

Step 1	Multiplication – equal groups
Step 2	Use arrays
Step 3	Multiples of 2
Step 4	Multiples of 5 and 10
Step 5	Sharing and grouping
Step 6	Multiply by 3
Step 7	Divide by 3
Step 8	The 3 times-table

Small steps

Step 9	Multiply by 4

Step 10	Divide by 4

Step 11	The 4 times-table

Step 12	Multiply by 8

Step 13	Divide by 8

Step 14	The 8 times-table

Step 15	The 2, 4 and 8 times-tables

White Rose MATHS

Small steps

Year 3

Spring Block 1

Multiplication and division B

White Rose
MATHS

Small steps

Step 1   Multiples of 10

Step 2   Related calculations

Step 3   Reasoning about multiplication

Step 4   Multiply a 2-digit number by a 1-digit number – no exchange

Step 5   Multiply a 2-digit number by a 1-digit number – with exchange

Step 6   Link multiplication and division

Step 7   Divide a 2-digit number by a 1-digit number – no exchange

Step 8   Divide a 2-digit number by a 1-digit number – flexible partitioning

White Rose MATHS

Small steps

Step 9	Divide a 2-digit number by a 1-digit number – with remainders

Step 10	Scaling

Step 11	How many ways?

Spring Block 2

Length and perimeter

White Rose
MATHS

Small steps

Step 1	Measure in metres and centimetres
Step 2	Measure in millimetres
Step 3	Measure in centimetres and millimetres
Step 4	Metres, centimetres and millimetres
Step 5	Equivalent lengths (metres and centimetres)
Step 6	Equivalent lengths (centimetres and millimetres)
Step 7	Compare lengths
Step 8	Add lengths

White Rose MATHS

Small steps

Step 9 Subtract lengths

Step 10 What is perimeter?

Step 11 Measure perimeter

Step 12 Calculate perimeter

White Rose
MATHS

Spring Block 3

Fractions A

White Rose MATHS

Small steps

Step 1 | Understand the denominators of unit fractions

Step 2 | Compare and order unit fractions

Step 3 | Understand the numerators of non-unit fractions

Step 4 | Understand the whole

Step 5 | Compare and order non-unit fractions

Step 6 | Fractions and scales

Step 7 | Fractions on a number line

Step 8 | Count in fractions on a number line

White Rose MATHS

Small steps

Step 9	Equivalent fractions on a number line

Step 10	Equivalent fractions as bar models

White Rose MATHS

Spring Block 4

Mass and capacity

White Rose
MATHS

Small steps

Step 1	Use scales
Step 2	Measure mass in grams
Step 3	Measure mass in kilograms and grams
Step 4	Equivalent masses (kilograms and grams)
Step 5	Compare mass
Step 6	Add and subtract mass
Step 7	Measure capacity and volume in millilitres
Step 8	Measure capacity and volume in litres and millilitres

White Rose MATHS

Small steps

Step 9	Equivalent capacities and volumes (litres and millilitres)
Step 10	Compare capacity and volume
Step 11	Add and subtract capacity and volume

White Rose MATHS

Small steps

Year 3

White Rose MATHS

Summer Block 1

Fractions B

Small steps

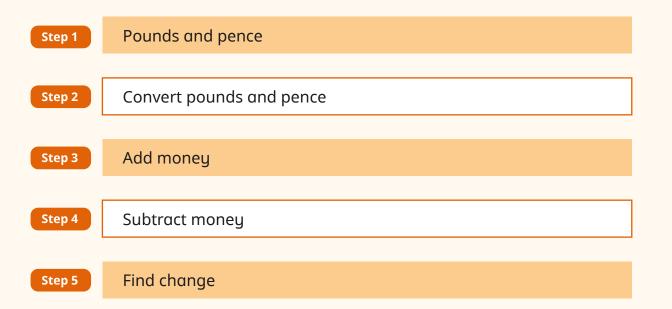| Step 1	Add fractions
Step 2	Subtract fractions
Step 3	Partition the whole
Step 4	Unit fractions of a set of objects
Step 5	Non-unit fractions of a set of objects
Step 6	Reasoning with fractions of an amount

White Rose MATHS
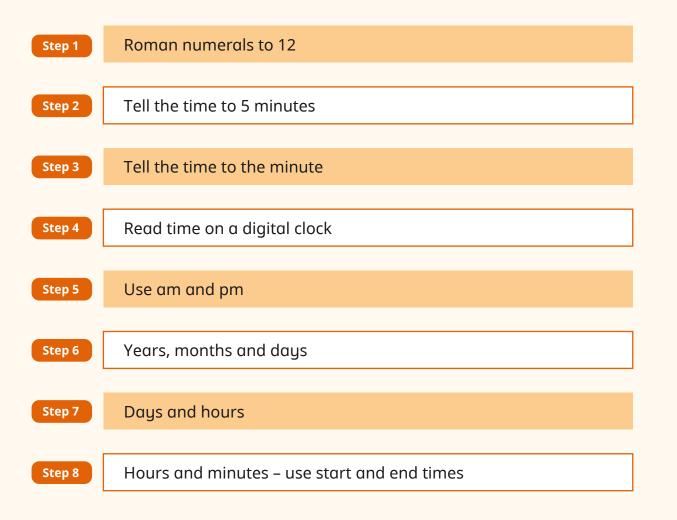
Summer Block 2

Money

Small steps

Step 1 Pounds and pence

Step 2 Convert pounds and pence

Step 3 Add money

Step 4 Subtract money

Step 5 Find change

White Rose MATHS

Summer Block 3

Time

White Rose
MATHS

Small steps

Step 1	Roman numerals to 12
Step 2	Tell the time to 5 minutes
Step 3	Tell the time to the minute
Step 4	Read time on a digital clock
Step 5	Use am and pm
Step 6	Years, months and days
Step 7	Days and hours
Step 8	Hours and minutes – use start and end times

White Rose MATHS

Small steps

Step 9 Hours and minutes - use durations

Step 10 Minutes and seconds

Step 11 Units of time

Step 12 Solve problems with time

White Rose MATHS

Summer Block 4

Shape

White Rose
MATHS

Small steps

Step 1 Turns and angles

Step 2 Right angles

Step 3 Compare angles

Step 4 Measure and draw accurately

Step 5 Horizontal and vertical

Step 6 Parallel and perpendicular

Step 7 Recognise and describe 2-D shapes

Step 8 Draw polygons

White Rose MATHS

Small steps

Step 9 Recognise and describe 3-D shapes

Step 10 Make 3-D shapes

Summer Block 5

Statistics

White Rose
MATHS

Small steps

Step 1	Interpret pictograms
Step 2	Draw pictograms
Step 3	Interpret bar charts
Step 4	Draw bar charts
Step 5	Collect and represent data
Step 6	Two-way tables

White Rose MATHS