Mixed age primary maths

Single age links

September 2024

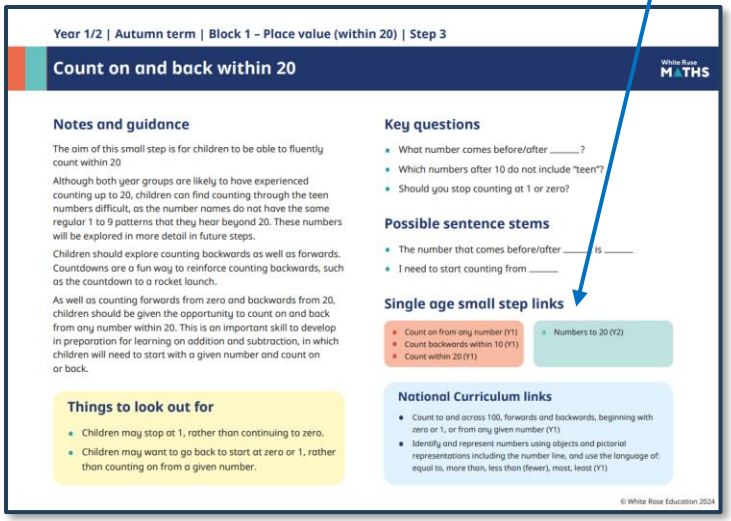
Introduction

The aim of this document is to give an at-a-glance guide to how the White Rose Maths mixed age curriculum links to the single age schemes of learning.

In each block, it shows where to find the related small steps within the single age, version 3 White Rose Maths schemes of learning.

These links can also be found within the Scheme of learning documents, on each notes and guidance page.

These are the single age small step links that correspond with this mixed age small step.



Year 1/2 | Autumn term | Block 1 – Place value (within 20) | Step 3

Count on and back within 20

Notes and guidance

The aim of this small step is for children to be able to fluently count within 20

Although both year groups are likely to have experienced counting up to 20, children can find counting through the teen numbers difficult, as the number names do not have the same regular 1 to 9 patterns that they hear beyond 20. These numbers will be explored in more detail in future steps.

Children should explore counting backwards as well as forwards. Countdowns are a fun way to reinforce counting backwards, such as the countdown to a rocket launch.

As well as counting forwards from zero and backwards from 20, children should be given the opportunity to count on and back from any number within 20. This is an important skill to develop in preparation for learning on addition and subtraction, in which children will need to start with a given number and count on or back.

Things to look out for

- Children may stop at 1, rather than continuing to zero.
- Children may want to go back to start at zero or 1, rather than counting on from a given number.

Key questions

- What number comes before/after _____?
- Which numbers after 10 do not include "teen"?
- Should you stop counting at 1 or zero?

Possible sentence stems

- The number that comes before/after _____ is _____
- I need to start counting from _____

Single age small step links

- Count on from any number (Y1)
- Count backwards within 10 (Y1)
- Count within 20 (Y1)
- Numbers to 20 (Y2)

National Curriculum links

- Count to and across 100, forwards and backwards, beginning with zero or 1, or from any given number (Y1)
- Identify and represent numbers using objects and pictorial representations including the number line, and use the language of: equal to, more than, less than (fewer), most, least (Y1)

Where a cell is empty, this means there is no corresponding small step within the schemes of learning for that year. As the National Curriculum states that schools are required to teach the relevant programme of study by the end of each key stage, this allows teachers the flexibility to introduce content earlier or later than set out in the programme of study.

Add three 1-digit numbers does not appear in the single age Y1 scheme of learning, however children in a Y1/2 mixed class will be exposed to this learning.

Autumn 2 – Addition and subtraction (within 20)

	Step	Y1 small steps	Y2 small steps
9	Add three 1-digit numbers		Add three 1-digit numbers (Aut B1 S7)

Year 1/2

Autumn 1 – Place value (within 20)

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Count objects within 10	Count objects (Aut B1 S2) Count objects from a larger group (Aut B1 S3)	
2	Represent numbers to 10	Represent objects (Aut B1 S4)	Numbers to 20 (Aut B1 S1)
3	Count on and back within 20	Count on from any number (Aut B1 S6) Count backwards within 10 (Aut B1 S8) Count within 20 (Spr B1 S1)	Numbers to 20 (Aut B1 S1)
4	Understand 10	Understand 10 (Spr B1 S2) Represent objects (Aut B1 S4) Recognise numbers as words (Aut B1 S5)	Numbers to 20 (Aut B1 S1)
5	Understand 11 – 15	Understand 11, 12 and 13 (Spr B1 S3) Understand 14, 15 and 16 (Spr B1 S4) Represent objects (Aut B1 S4) Recognise numbers as words (Aut B1 S5)	Numbers to 20 (Aut B1 S1)
6	Understand 16 – 20	Understand 14, 15 and 16 (Spr B1 S4) Understand 17, 18 and 19 (Spr B1 S5) Understand 20 (Spr B1 S6) Represent objects (Aut B1 S4) Recognise numbers as words (Aut B1 S5)	Numbers to 20 (Aut B1 S1)
7	1 more	1 more (Aut B1 S7) 1 more and 1 less (Spr B1 S7)	

Autumn 1 – Place value (within 20)

	Y1/2 Step	Y1 small steps	Y2 small steps
8	1 less	1 less (Aut B1 S9) 1 more and 1 less (Spr B1 S7)	
9	Number lines	The number line (Aut B1 S15) The number line to 20 (Spr B1 S8) Use a number line to 20 (Spr B1 S9)	10s and 1s on the number line to 100 (Aut B1 S10)
10	Estimate on number lines	Estimate on a number line to 20 (Spr B1 S10)	Estimate numbers on a number line (Aut B1 S11)
11	Less than, greater than, equal to	Compare groups by matching (Aut B1 S10) Fewer, more, same (Aut B1 S11) Less than, greater than, equal to (Aut B1 S12)	Compare objects (Aut B1 S12)
12	Compare numbers	Compare numbers (Aut B1 S13) Compare numbers to 20 (Spr B1 S11)	Compare numbers (Aut B1 S13)
13	Order numbers	Order objects and numbers (Aut B1 S14) Order numbers to 20 (Spr B1 S12)	Order objects and numbers (Aut B1 S14)

Autumn 2 – Addition and subtraction (within 20)

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Parts and wholes	Introduce parts and wholes (Aut B1 S1) Part-whole model (Aut B1 Write number sentences (Aut B2 S3) Number bonds within 10 (Aut B2 S5)	
2	Systematic number bonds within 10	Systematic number bonds within 10 (Aut B2 S6)	
3	Number bonds to 10	Number bonds to 10 (Aut B2 S7) Fact families (Aut B2 S4)	Bonds to 10 (Aut B2 S1)
4	Number bonds to 20	Find and make number bonds to 20 (Spr B2 S3) Fact families (Aut B2 S4)	Fact families – addition and subtraction bonds within 20 (Aut B2 S2)
5	Addition – add together	Addition – add together (Aut B2 S8) Addition problems (Aut B2 S10) Add ones using number bonds (Spr B2 S2)	Add and subtract 1s (Aut B2 S5)
6	Addition – add more	Addition – add more (Aut B2 S9) Addition problems (Aut B2 S10) Add by counting on within 20 (SPr B2 S1)	Add and subtract 1s (Aut B2 S5)
7	Doubles	Doubles (Spr B2 S4)	Doubling and halving (Spr B4 S11)
8	Near doubles	Near doubles (Spr B2 S5)	Doubling and halving (Spr B4 S11)

Autumn 2 – Addition and subtraction (within 20)

	Y1/2 Step	Y1 small steps	Y2 small steps
9	Add three 1-digit numbers		Add three 1-digit numbers (Aut B1 S7)
10	Find a part	Find a part (Aut B2 S11) Subtraction - find a part (Aut B2 S12) Subtract ones using number bonds (Spr B2 S6)	
11	Fact families – the eight facts	Fact families – the eight facts (Aut B2 S13)	Fact families – addition and subtraction bonds within 20 (Aut B2 S2)
12	Take away (how many left?)	Subtraction – take away/cross out (Aut B2 S14) Take away How many left? (Aut B2 S15) Subtraction on a number line (Aut B2 S16) Subtraction – counting back (Spr B2 S7)	
13	Find the difference	Subtraction – finding the difference (Spr B2 S8)	
14	Missing number problems	Missing number problems (Spr B2 S10)	

Autumn 3 – Place value (within 100)

White Rose MATHS

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Count beyond 20	Count from 20 to 50 (Spr B3 S1) Count from 50 to 100 (Sum B4 S1)	
2	Count tens	20, 30, 40 and 50 (Spr B3 S2) Tens to 100 (Sum B4 S2)	
3	Groups of tens and ones	Count by making groups of tens (Spr B3 S3) Groups of tens and ones (Spr B3 S4)	Count objects to 100 by making 10s (Aut B1 S2)
4	Partition into tens and ones	Partition into tens and ones (Spr B3 S5) Partition into tens and ones (Sum B4 S3)	Recognise tens and ones (Aut B1 S3) Partition numbers to 100 (Aut B1 S5) Write numbers to 100 (Aut B1 S6) Write numbers to 100 in expanded form (Aut B1 S7)
5	Use a place value chart		Use a place value chart (Aut B1 S4) Write numbers to 100 (Aut B1 S6) Write numbers to 100 in expanded form (Aut B1 S7)
6	Flexible partitioning		Flexibly partition numbers to 100 (Aut B1 S7)
7	Number lines	The number line to 50 (Spr B3 S6) The number line to 100 (Sum B4 S4)	10s on the number line to 100 (Aut B1 S9) 10s and 1s on the number line to 100 (Aut B1 S10)
8	Estimate on number lines	Estimate on a number line to 50 (Spr B3 S7)	Estimate numbers on a number line (Aut B1 S11)

Autumn 3 – Place value (within 100)

	Y1/2 Step	Y1 small steps	Y2 small steps
9	1 more and 1 less	1 more, 1 less (Spr B3 S8) 1 more, 1 less (Sum B4 S5)	
10	Compare numbers with the same number of tens	Compare numbers with the same number of tens (Sum B4 S6)	Compare objects (Aut B1 S12) Compare numbers (Aut B1 S13)
11	Compare any two numbers	Compare any two numbers (Sum B4 S7)	Compare numbers (Aut B1 S13)
12	Order objects and numbers		Order objects and numbers (Aut B1 S14)

Autumn 4 – Shape

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Recognise and name 2-D and 3-D shapes	Recognise and name 3-D shapes (Aut B3 S1) Recognise and name 2-D shapes (Aut B3 S3)	Recognise 2-D and 3-D shapes (Aut B3 S1)
2	Count sides on 2-D shapes		Count sides on 2-D shapes (Aut B3 S2)
3	Count vertices on 2-D shapes		Count vertices on 2-D shapes (Aut B3 S3)
4	Draw 2-D shapes		Draw 2-D shapes (Aut B3 S4)
5	Vertical lines of symmetry		Lines of symmetry on shapes (Aut B3 S5) Use lines of symmetry to complete shapes (Aut B3 S6)
6	Count faces on 3-D shapes		Count faces on 3-D shapes (Aut B3 S8)
7	Count edges on 3-D shapes		Count edges on 3-D shapes (Aut B3 S9)
8	Count vertices on 3-D shapes		Count vertices on 3-D shapes (Aut B3 S10)
9	Sort 2-D and 3-D shapes	Sort 3-D shapes (Aut B3 S2) Sort 2-D shapes (Aut B3 S4)	Sort 2-D shapes (Aut B3 S7) Sort 3-D shapes (Aut B3 S11)
10	Patterns with 2-D and 3-D shapes	Patterns with 2-D and 3-D shapes (Aut B3 S5)	Make patterns with 2-D and 3-D shapes (Aut B3 S12) Shape patterns with turns (Sum B4 S5)

Spring 1 – Addition and subtraction (within 100)

White Rose MATHS

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Related facts	Related facts (Spr B2 S9)	Related facts (Aut B2 S3) Bonds to 100 (Aut B2 S4)
2	Add and subtract 1s	Add ones using number bonds (Spr B2 S2)	Add and subtract 1s (Aut B2 S5)
3	Add to the next 10	Find and make number bonds to 20 (Spr B2 S3)	Add by making 10 (Aut B2 S6) Add to the next 10 (Aut B2 S8)
4	Add to a 10		Add by making 10 (Aut B2 S6)
5	Add across a 10		Add by making 10 (Aut B2 S6) Add across a 10 (Aut B2 S9)
6	Subtract to a 10		Subtract across a 10 (Aut B2 S10)
7	Subtract from a 10		Subtract across a 10 (Aut B2 S10) Subtract from a 10 (Aut B2 S11)
8	Subtract across a 10		Subtract across a 10 (Aut B2 S10) Subtract from a 10 (Aut B2 S11) Subtract a 1-digit number from a 2-digit numbers across a 10 (Aut B2 S12)
9	Add 10s		10 more, 10 less (Aut B2 S13) Add and subtract 10s (Aut B2 S14)
10	Subtract 10s		10 more, 10 less (Aut B2 S13) Add and subtract 10s (Aut B2 S14)

Spring 1 – Addition and subtraction (within 100)

	Y1/2 Step	Y1 small steps	Y2 small steps
11	Add two 2-digit numbers (not across a 10)		Add two 2-digit numbers (not across a 10) (Aut B2 S15)
12	Add two 2-digit numbers (across a 10)		Add two 2-digit numbers (across a 10) (Aut B2 S16)
13	Subtract two 2-digit numbers (not across a 10)		Subtract two 2-digit numbers (not across a 10) (Aut B2 S17)
14	Subtract two 2-digit numbers (across a 10)		Subtract two 2-digit numbers (across a 10) (Aut B2 S18)
15	Mixed addition and subtraction		Mixed addition and subtraction (Aut B2 S19)
16	Compare number sentences		Compare number sentences (Aut B2 S20)
17	Missing number problems	Missing number problems (Spr B2 S10)	Missing number problems (Aut B2 S21)

Spring 2 – Multiplication and division

	Step	Y1 small steps	Y2 small steps
1	Count in 2s, 5s and 10s	Count in 2s (Sum B1 S1) Count in 5s (Sum B1 S2) Count in 10s (Sum B1 S3)	Count in 2s, 5s and 10s (Aut B1 S15)
2	Count in 3s		Count in 3s (Aut B1 S16)
3	Recognise equal groups	Recognise equal groups (Sum B1 S4)	Recognise equal groups (Spr B2 S1)
4	Make equal groups		Make equal groups (Spr B2 S2)
5	Add equal groups	Add equal groups (Sum B1 S5)	Add equal groups (Spr B2 S3)
6	Make arrays	Make arrays (Sum B1 S6)	Use arrays (Spr B2 S6)
7	Multiplication sentences		Introduce the multiplication symbol (Spr B2 S4) Multiplication sentences (Spr B2 S5)
8	Commutativity		Use arrays (Spr B2 S6)
9	Make equal groups – grouping	Make equal groups – grouping (Sum B1 S8)	Make equal groups – grouping (Spr B2 S7)
10	Make equal groups – sharing	Make equal groups – sharing (Sum B1 S9)	Make equal groups – sharing (Spr B2 S8)

Spring 2 – Multiplication and division

	Y1/2 Step	Y1 small steps	Y2 small steps
11	The 2 times-table		The 2 times-table (Spr B2 S9)
12	Divide by 2		Divide by 2 (Spr B2 S10)
13	Doubling and halving	Make doubles (Sum B1 S7)	Doubling and halving (Spr B2 S11)
14	Odd and even numbers		Odd and even numbers (Spr B2 S12)
15	The 10 times-table		The 10 times-table (Spr B2 S13)
16	Divide by 10		Divide by 10 (Spr B2 S14)
17	The 5 times-table		The 5 times-table (Spr B2 S15)
18	Divide by 5		Divide by 5 (Spr B2 S16)
19	The 5 and 10 times-tables		The 5 and 10 times-tables (Spr B2 S17)

Spring 3 – Length and height

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Measure length using objects	Measure length using objects (Spr B4 S2)	
2	Measure length in centimetres	Measure length in centimetres (Spr B4 S3)	Measure in centimetres (Spr B3 S1)
3	Measure length in metres		Measure in metres (Spr B3 S2)
4	Compare lengths and heights	Compare lengths and heights (Spr B4 S1)	Compare lengths and heights (Spr B3 S3)
5	Order lengths and heights		Order lengths and heights (Spr B3 S4)
6	Four operations with lengths and heights		Four operations with lengths and heights (Spr B3 S5)

Spring 4 – Statistics

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Tally charts		Make tally charts (Sum B3 S1)
2	Tables		Tables (Sum B3 S2)
3	Block diagrams		Block diagrams (Sum B3 S3)
4	Draw pictograms		Draw pictograms 1-1 (Sum B3 S4) Draw pictograms 2, 5 and 10 (Sum B3 6)
5	Interpret pictograms		Interpret pictograms 1-1 (Sum B3 S5) Interpret pictograms 2, 5 and 10 (Sum B3 S7)

Summer 1 – Money

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Recognise coins and notes	Recognise coins (Sum B5 S2) Recognise notes (Sum B5 S3)	
2	Count money – pence	Unitising (Sum B5 S1) Count in coins (Sum B5 S4)	Count money – pence (Spr B1 S1)
3	Count money – pounds (notes and coins)	Count in coins (Sum B5 S4)	Count money – pounds (notes and coins) (Spr B1 S2)
4	Count money – pounds and pence		Count money – pounds and pence (Spr B1 S3)
5	Choose notes and coins		Choose notes and coins (Spr B1 S4) Make the same amount (Spr B1 S5)
6	Compare amounts of money		Compare amounts of money (Spr B1 S6)
7	Calculate with money		Calculate with money (Spr B1 S7) Two-step problems (Spr B1 S10)
8	Make a pound		Make a pound (Spr B1 S8)
9	Find change		Find change (Spr B1 S9) Two-step problems (Spr B1 S10)

Summer 2 – Fractions

White Rose MATHS

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Parts and whole		Introduction to parts and wholes (Sum B1 S1)
2	Equal and unequal parts		Equal and unequal parts (Sum B1 S2)
3	Recognise a half	Recognise a half of an object or shape (Sum B2 S1) Recognise a half of a quantity (Sum B2 S3)	Recognise a half (Sum B1 S3)
4	Find a half	Find a half of an object or shape (Sum B2 S2) Find a half of a quantity (Sum B2 S4)	Find a half (Sum B1 S4)
5	Recognise a quarter	Recognise a quarter of an object or shape (Sum B2 S5) Recognise a quarter of a quantity (Sum B2 S7)	Recognise a quarter (Sum B1 S5)
6	Find a quarter	Find a quarter of an object or shape (Sum B2 S6) Find a quarter of a quantity (Sum B2 S8)	Find a quarter (Sum B1 S6)
7	Recognise a third		Recognise a third (Sum B1 S7)
8	Find a third		Find a third (Sum B1 S8)

Summer 2 – Fractions

	Y1/2 Step	Y1 small steps	Y2 small steps
9	Find the whole		Find the whole (Sum B1 S9)
10	Unit fractions		Unit fractions (Sum B1 S10)
11	Non-unit fractions		Non-unit fractions (Sum B1 S11)
12	Recognise the equivalence of a half and two-quarters		Recognise the equivalence of a half and two-quarters (Sum B1 S12)
13	Recognise three-quarters		Recognise three-quarters (Sum B1 S13)
14	Find three-quarters		Find three-quarters (Sum B1 S14)
15	Count in fractions up to a whole		Count in fractions up to a whole (Sum B1 S15)

Summer 3 – Time

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Months and days	Before and after (Sum B6 S1) Days of the week (Sum B6 S2) Months of the year (Sum B6 S3)	
2	Hours, minutes and seconds	Hours, minutes and seconds (Sum B6 S4) Ordinal numbers (Sum B3 S5)	
3	O'clock and half past	Tell the time to the hour (Sum B6 S5) Tell the time to the half hour (Sum B6 S6)	O'clock and half past (Sum B2 S1)
4	Quarter past		Quarter past and quarter to (Sum B2 S2)
5	Tell time past the hour		Tell the time past the hour (Sum B2 S3)
6	Quarter to		Quarter past and quarter to (Sum B2 S2)
7	Tell time to the hour		Tell the time to the hour (Sum B2 S4)
8	Tell the time to 5 minutes		Tell the time to 5 minutes (Sum B2 S5)
9	Minutes in an hour		Minutes in an hour (Sum B2 S6)
10	Hours in a day	Before and after (Sum B6 S1)	Hours in a day (Sum B2 S7)
11	Time problems		

Summer 4 – Mass, capacity and temperature

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Compare mass	Heavier and lighter (Spr B5 S1) Compare mass (Spr B5 S3)	Compare mass (Spr B4 S1)
2	Measure in grams	Measure mass (Spr B5 S2)	Measure in grams (Spr B4 S2)
3	Measure in kilograms		Measure in kilograms (Spr B4 S3)
4	Four operations with mass		Four operations with mass (Spr B4 S4)
5	Compare volume and capacity	Full and empty (Spr B5 S4) Compare volume (Spr B5 S5) Compare capacity (Spr B5 S7)	Compare volume and capacity (Spr B4 S5)
6	Measure in millilitres	Measure capacity (Spr B5 S6)	Measure in millilitres (Spr B4 S6)
7	Measure in litres		Measure in litres (Spr B4 S7)
8	Four operations with volume and capacity		Four operations with volume and capacity (Spr B4 S8)
9	Temperature		Temperature (Spr B4 S9)

Summer 5 – Position and direction

	Y1/2 Step	Y1 small steps	Y2 small steps
1	Language of position	Describe position – left and right (Sum B3 S2) Describe position – above and below (Sum B3 S4)	Language of position (Sum B4 S1)
2	Describe movement	Describe position – forwards and backwards (Sum B3 S3)	Describe movement (Sum B4 S2)
3	Describe turns	Describe turns (Sum B3 S1)	Describe turns (Sum B4 S3)
4	Describe movement and turns		Describe movement and turns (Sum B4 S4)

Year 3/4

Autumn 1 – Place Value

White Rose MATHS

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Hundreds, tens and ones	Hundreds, tens and ones (Aut B1 S8) Hundreds (Aut B1 S4)	
2	Represent numbers to 1,000	Represent numbers to 100 (Aut B1 S1) Represent numbers to 1,000 (Aut B1 S5)	Represent numbers to 1,000 (Aut B1 S1)
3	Partition numbers to 1,000	Partition numbers to 100 (Aut B1 S2) Partition numbers to 1,000 (Aut B1 S6)	Partition numbers to 1,000 (Aut B1 S2)
4	Thousands		Thousands (Aut B1 S4)
5	Represent numbers to 10,000	Represent numbers to 1,000 (Aut B1 S5)	Represent numbers to 1,000 (Aut B1 S1) Represent numbers to 10,000 (Aut B1 S5)
6	Partition numbers to 10,000	Partition numbers to 1,000 (Aut B1 S6)	Partition numbers to 1,000 (Aut B1 S2) Partition numbers to 10,000 (Aut B1 S6)
7	Flexible partitioning	Flexible partitioning of numbers to 1,000 (Aut B1 S7)	Flexible partitioning of numbers to 10,000 (Aut B1 S7)
8	Find 1, 10, 100 or 1,000 more or less	Find 1, 10 or 100 more or less (Aut B1 S9)	Find 1, 10, 100 or 1,000 more or less (Aut B1 S8)
9	Number lines to 1,000	Number line to 100 (Aut B1 S3) Number line to 1,000 (Aut B1 S10)	Number line to 1,000 (Aut B1 S3)

Autumn 1 – Place Value

	Y3/4 Step	Y3 small steps	Y4 small steps
10	Number lines to 10,000	Number line to 1,000 (Aut B1 S10)	Number line to 1,000 (Aut B1 S3) Number line to 10,000 (Aut B1 S9)
11	Estimate on a number line	Estimate on a number line to 1,000 (Aut B1 S11)	Estimate on a number line to 10,000 (Aut B1 S10)
12	Compare numbers	Compare numbers to 1,000 (Aut B1 S12)	Compare numbers to 10,000 (Aut B1 S11)
13	Order numbers	Order numbers to 1,000 (Aut B1 S13)	Order numbers to 10,000 (Aut B1 S12)
14	Round to the nearest 10		Round to the nearest 10 (Aut B1 S14)
15	Round to the nearest 100		Round to the nearest 100 (Aut B1 S15)
16	Round to the nearest 1,000		Round to the nearest 1,000 (Aut B1 S16)
17	Round to the nearest 10, 100 or 1,000		Round to the nearest 10, 100 or 1,000 (Aut B1 S17)
18	Roman numerals	Roman numerals to 12 (Sum B3 S1)	Roman numerals (Aut B1 S13)

Autumn 2 – Addition and subtraction

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Add and subtract 1s, 10s, 100s, 1,000s	Add and subtract 1s (Aut B2 S2) Add and subtract 10s (Aut B2 S3) Add and subtract 100s (Aut B2 S4)	Add and subtract 1s, 10s, 100s and 1,000s (Aut B2 S1)
2	Add 1s, 10s, 100s, 1,000s across a boundary	Add 1s across a 10 (Aut B2 S6) Add 10s across a 100 (Aut B2 S7)	
3	Subtract 1s, 10s, 100s, 1,000s across a boundary	Subtract 1s across a 10 (Aut B2 S8) Subtract 10s across a 1 (Aut B2 S9)	
4	Make connections	Make connections (Aut B2 S10)	
5	Add up to two 4-digit numbers – no exchange	Add two numbers (no exchange) (Aut B2 S11)	Add up to two 4-digit numbers – no exchange (Aut B2 S2)
6	Add up to two 4-digit numbers (across a 10)	Add two numbers (across a 10) (Aut B2 13)	Add two 4-digit numbers – one exchange (Aut B2 S3) Add two 4-digit numbers – more than one exchange (Aut B2 S4)
7	Add up to two 4-digit numbers (across a 100)	Add two numbers (across a 100) (Aut B2 S14	
8	Add up to two 4-digit numbers (across a 1,000)	Add two numbers (across a 100) (Aut B2 S14)	

Autumn 2 – Addition and subtraction

White Rose MATHS

	Y3/4 Step	Y3 small steps	Y4 small steps
9	Add numbers with a different number of digits	Add 2-digit and 3-digit numbers (Aut B2 S17)	Add two 4-digit numbers – more than one exchange (Aut B2 S4)
10	Subtract up to two 4-digit numbers – no exchange	Subtract two numbers (no exchange) (Aut B2 S12)	Subtract two 4-digit numbers – no exchange (Aut B2 S5)
11	Subtract up to two 4-digit numbers (across a 10)	Subtract two numbers (across a 10) (Aut B2 S15)	Subtract two 4-digit numbers – one exchange (Aut B2 S6) Subtract two 4-digit numbers – more than one exchange (Aut B2 S7)
12	Subtract up to two 4-digit numbers (across a 100)	Subtract two numbers (across a 100) (Aut B2 S16)	
13	Subtract up to two 4-digit numbers (across a 1,000)		
14	Subtract numbers with a different numbers of digits	Subtract a 2-digit number from a 3-digit number (Aut B2 S18)	
15	Complements to 100 and 1,000	Complements to 100 (Aut B2 S19)	
16	Estimate answers	Estimate answers (Aut B2 S20)	Estimate answers (Aut B2 S9)
17	Inverse operations	Inverse operations (Aut B2 S21)	Checking strategies (Aut B2 S10)
18	Efficient methods	Make decisions (Aut B2 S22)	Efficient subtraction (Aut B2 S1)

Autumn 3 – Multiplication and division A

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Arrays	Multiplication – equal groups (Aut B3 S1) Use arrays (Aut B3 S2)	
2	Sharing and grouping	Sharing and grouping (Aut B3 S5)	
3	The 2, 5 and 10 times-tables	Multiples of 2 (Aut B3 S3) Multiples of 5 and 10 (Aut B3 S4)	
4	The 4 times-table	Multiply by 4 (Aut B3 S9) Divide by 4 (Aut B3 S10) The 4 times-table (Aut B3 S11)	
5	The 8 times-table	Multiply by 8 (Aut B3 S12) Divide by 8 (Aut B3 S13) The 8 times-table (Aut B3 S14)	
6	The 2, 4 and 8 times-tables	The 2, 4 and 8 times-table (Aut B3 S15)	
7	The 3 times-table	Multiply by 3 (Aut B3 S6) Divide by 3 (Aut B3 S7) The 3 times-table (Aut B3 S8)	Multiples of 3 (Aut B4 S1)
8	The 6 times-table		Multiply and divide by 6 (Aut B4 S2) 6 times-table and division facts (Aut B4 S3)

Autumn 3 – Multiplication and division A

	Y3/4 Step	Y3 small steps	Y4 small steps
9	The 9 times-table		Multiply and divide by 9 (Aut B4 S4) 9 times-table and division facts (Aut B4 S5)
10	The 3, 6 and 9 times-tables		The 3, 6 and 9 times-tables (Aut B4 S6)
11	The 7 times-table		Multiply and divide by 7 (Aut B4 S7) 7 times-table and division facts (Aut B4 S8)
12	The 11 times-table		11 times-table and division facts (Aut B4 S9)
13	The 12 times-table		12 times-table and division facts (Aut B4 S10)
14	Multiply by 1 and 0		Multiply by 1 and 0 (Aut B4 S11)
15	Divide a number by 1 and itself		Divide a number by 1 and itself (Aut B4 S12)

Autumn 4 – Area

	Step	Y3 small steps	Y4 small steps
1	What is area?		What is area? (Aut B3 S1)
2	Count squares		Count squares (Aut B3 S2)
3	Make shapes		Make shapes (Aut B3 S3)
4	Compare areas		Compare areas (Aut B3 S4)

Spring 1 – Multiplication and division B

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Factor pairs		Factor pairs (Spr B1 S1)
2	Multiply and divide by 10 and 100	Multiples of 10 (Spr B1 S1)	Multiply by 10 (Spr B1 S3) Multiply by 100 (Spr B1 S4) Divide by 10 (Spr B1 S5) Divide by 100 (Spr B1 S6)
3	Reasoning about multiplication	Reasoning about multiplication (Spr B1 S3)	
4	Multiply three numbers		Multiply three numbers (Aut B4 S13)
5	Efficient multiplication		Use factor pairs (Spr B1 S2) Efficient multiplication (Spr B1 S15)
6	Scaling	Scaling (Spr B1 S10)	
7	Correspondence problems	How many ways? (Spr B1 S11)	Correspondence problems (Spr B1 S14)
8	Multiply up to a 3-digit number by a 1-digit number – no exchange	Multiply a 2-digit by 1-digit number – no exchange (Spr B1 S4)	Multiply a 2-digit number by a 1-digit number (Spr B1 S9) Multiply a 3-digit number by a 1-digit number (Spr B1 S10)
9	Multiply up to a 3-digit number by a 1-digit number – with exchange	Multiply a 2-digit by 1-digit number – with exchange (Spr B1 S5)	Multiply a 2-digit number by a 1-digit number (Spr B1 S9) Multiply a 3-digit number by a 1-digit number (Spr B1 S10)

Spring 1 – Multiplication and division B

	Y3/4 Step	Y3 small steps	Y4 small steps
10	Related calculations – multiplication and division	Link multiplication and division (Spr B1 S6) Related calculations (Spr B1 S2)	Related facts – multiplication and division (Spr B1 S7)
11	Divide by a 1-digit number – flexible partitioning	Divide a 2-digit number by a 1-digit number – flexible partitioning (Spr B1 S8)	
12	Divide up to a 3-digit number by a 1-digit number – no exchange	Divide a 2-digit number by a 1-digit number – no exchange (Spr B1 S7)	Divide a 2-digit number by a 1-digit number (1) (Spr B1 S11) Divide a 3-digit number by a 1-digit number (Spr B1 S13)
13	Divide up to a 3-digit number by a 1-digit number – with exchange	Divide a 2-digit number by a 1-digit number – flexible partitioning (Spr B1 S8)	Divide a 2-digit number by a 1-digit number (1) (Spr B1 S11) Divide a 3-digit number by a 1-digit number (Spr B1 S13)
14	Divide up to a 3-digit number by a 1-digit number – with remainders	Divide a 2-digit number by a 1-digit number – with remainders (Spr B1 S9)	Divide a 2-digit number by a 1-digit number (2) (Spr B1 S12) Divide a 3-digit number by a 1-digit number (Spr B1 S13)

Spring 2 – Length and perimeter

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Measure in centimetres and millimetres	Measure in millimetres (Spr B2 S2) Measure in centimetres and millimetres (Spr B2 S3)	
2	Measure in kilometres and metres		Measure in kilometres and metres (Spr B2 S1)
3	Kilometres, metres, centimetres and millimetres	Metres, centimetres and millimetres (Spr B2 S4)	
4	Equivalent lengths	Equivalent lengths (metres and centimetres) (Spr B2 S5) Equivalent lengths (centimetres and millimetres) (Spr B2 S6) Compare lengths (Spr B2 S7)	Equivalent lengths (kilometres and metres) (Spr B2 S2)
5	Add and subtract lengths	Add lengths (Spr B2 S8) Subtract lengths (Spr B2 S9)	
6	What is perimeter?	What is perimeter? (Spr B2 S10) Measure perimeter (Spr B2 S11)	Perimeter on a grid (Spr B2 S3)
7	Calculate perimeter	Calculate perimeter (Spr B2 S12)	Perimeter of a rectangle (Spr B2 S4)

Spring 2 – Length and perimeter

	Y3/4 Step	Y3 small steps	Y4 small steps
8	Perimeter of rectilinear shapes		Perimeter of rectilinear shapes (Spr B2 S5)
9	Calculate perimeter of rectilinear shapes		Find missing lengths in rectilinear shapes (Spr B2 S6) Calculate perimeter of rectilinear shapes (Spr B2 S7)
10	Perimeter of polygons		Perimeter of regular polygons (Spr B2 S8) Perimeter of polygons (Spr B2 S9)

Spring 3 – Fractions A

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Understand denominators	Understand the denominators of unit fractions (Spr B3 S1)	
2	Compare & order unit fractions	Compare & order unit fractions (Spr B3 S2)	
3	Understand numerators	Understand the numerators of non-unit fractions (Spr B3 S3)	
4	Understand the whole	Understand the whole (Spr B3 S4) Partition the whole (Sum B1 S3)	Understand the whole (Spr B3 S1)
5	Fractions on a number line	Fractions and scales (Spr B3 S6) Fractions on a number line (Spr B3 S7) Count in fractions on a number line (Spr B3 S8)	
6	Compare & order non-unit fractions	Compare & order non-unit fractions (Spr B3 S5)	
7	Equivalent fractions	Equivalent fractions on a number line (Spr B3 S9) Equivalent fractions as bar models (Spr B3 S10)	
8	Count beyond 1		Count beyond 1(Spr B3 S2) Number lines with mixed numbers (Spr B3 S4)

Spring 3 – Fractions A

	Y3/4 Step	Y3 small steps	Y4 small steps
9	Partition a mixed number		Partition a mixed number (Spr B3 S3)
10	Compare and order mixed numbers		Compare and order mixed numbers (Spr B3 S5) Number lines with mixed numbers (Spr B3 S4)
11	Understand improper fractions		Understand improper fractions (Spr B3 S6)
12	Convert mixed numbers to improper fractions		Convert mixed numbers to improper fractions (Spr B3 S7)
13	Convert improper fractions to mixed numbers		Convert improper fractions to mixed numbers (Spr B3 S8)
14	Equivalent fraction families		Equivalent fractions on a number line (Spr B3 S9) Equivalent fraction families (Spr B3 S10)

Spring 4 – Mass and capacity

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Measure mass in grams	Measure mass in grams (Spr B4 S2)	
2	Measure mass in kilograms and grams	Measure mass in kilograms and grams (Spr B4 S3)	
3	Equivalent masses	Equivalent masses (kilograms and grams) (Spr B4 S4)	
4	Compare mass	Compare mass (Spr B4 S5)	
5	Add and subtract mass	Add and subtract mass (Spr B4 S6)	
6	Measure capacity and volume in millilitres	Measure capacity and volume in millilitres (Spr B4 S7)	
7	Measure capacity and volume in millilitres and litres	Measure capacity and volume in millilitres and litres (Spr B4 S8)	
8	Equivalent capacities and volumes	Equivalent capacities and volumes (litres and millilitres) (Spr B4 S9)	
9	Compare capacity and volume	Compare capacity and volume (Spr B4 S10)	
10	Add and subtract capacity and volume	Add and subtract capacity and volume (Spr B4 S11)	

Spring 5 – Fractions B

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Add fractions	Add fractions (Sum B1 S1)	Add two or more fractions (Spr B3 S11)
2	Add fractions and mixed numbers		Add fractions and mixed numbers (Spr B3 S12)
3	Subtract fractions	Subtract fractions (Sum B1 S2)	Subtract two fractions (Spr B3 S13)
4	Subtract from whole amounts		Subtract from whole amounts (Spr B3 S14)
5	Subtract from mixed numbers		Subtract from mixed numbers (Spr B3 S15)
6	Unit fractions of an amount	Unit fractions of a set of objects (Sum B1 S4)	
7	Non-unit fractions of an amount	Non-unit fractions of a set of objects (Sum B1 S5)	
8	Reasoning with fractions of an amount	Reasoning with fractions of an amount (Sum B1 S6)	

Summer 1 – Time

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Tell the time to 5 minutes	Tell the time to 5 minutes (Sum B3 S2)	
2	Tell the time to the minute	Tell the time to the minute(Sum B3 S3)	
3	Read time on a digital clock	Read time on a digital clock (Sum B3 S4)	
4	Use a.m. and p.m.	Use a.m. and p.m. (Sum B3 S5)	
5	Convert between analogue and digital times		Convert between analogue and digital times (Sum B3 S3)
6	Convert between 12- and 24-hour clock times		Convert to the 24 hour clock (Sum B3 S4) Convert from the 24 hour clock (Sum B3 S5)
7	Hours, minutes and seconds	Days and hours (Sum B3 S7) Minutes and seconds (Sum B3 S10) Units of time (Sum B3 S11)	Hours, minutes and seconds (Sum B3 S2)
8	Find and use durations	Hours and minutes – use start and end times (Sum B3 S8) Hours and minutes – use durations (Sum B3 S9)	
9	Years, months, weeks and days	Years, months and days (Sum B3 S6)	Years, months, weeks and days (Sum B3 S1)

Summer 2 – Decimals

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Tenths as fractions		Tenths as fractions (Spr B4 S1)
2	Tenths as decimals		Tenths as decimals (Spr B4 S2)
3	Tenths on a place value chart		Tenths on a place value chart (Spr B4 S3)
4	Tenths on a number line		Tenths on a number line (Spr B4 S4)
5	Hundredths as fractions		Hundredths as fractions (Spr B4 S7)
6	Hundredths as decimals		Hundredths as decimals (Spr B4 S8)
7	Hundredths on a place value chart		Hundredths on a place value chart (Spr B4 S9)
8	Halves and quarters as decimals		Halves and quarters as decimals (Sum B1 S8)
9	Make a whole		Make a whole with tenths (Sum B1 S1) Make a whole with hundredths (Sum B1 S2)
10	Partition decimals		Partition decimals (Sum B1 S3) Flexibly partition decimals (Sum B1 S4)

Summer 2 – Decimals

	Y3/4 Step	Y3 small steps	Y4 small steps
11	Compare and order decimals		Compare decimals (Sum B1 S5) Order decimals (Sum B1 S6)
12	Round to the nearest whole number		Round to the nearest whole number (Sum B1 S7)
13	Divide a number by 10		Divide a 1-digit number by 10 (Spr B4 S5) Divide a 2-digit number by 10 (Spr B4 S6)
14	Divide a number by 100		Divide a 1- or 2-digit number by 100 (Spr B4 S10)

Summer 3 – Money

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Pound and pence	Pounds and pence (Sum B2 S1)	
2	Write money using decimals		Write money using decimals (Sum B2 S1)
3	Convert pounds and pence	Convert pounds and pence (Sum B2 S2)	Convert between pounds and pence (Sum B2 S2)
4	Compare amounts of money		Compare amounts of money (Sum B2 S3)
5	Estimate with money		Estimate with money (Sum B2 S4)
6	Add money	Add money (Sum B2 S3)	Calculate with money (Sum B2 S5)
7	Subtract money	Subtract money (Sum B2 S4)	Calculate with money (Sum B2 S5)
8	Find change	Find change (Sum B2 S5)	Calculate with money (Sum B2 S5)
9	Solve problems with money		Solve problems with money (Sum B2 S6)

Summer 4 – Shape

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Turns and angles	Turns and angles (Sum B4 S1)	Understand angles as turns (Sum B4 S1)
2	Identify angles	Right angles (Sum B4 S2)	Identify angles (Sum B4 S2)
3	Compare and order angles	Compare angles (Sum B4 S3)	Compare and order angles (Sum B4 S3)
4	Types of lines	Horizontal and vertical (Sum B4 S4) Parallel and perpendicular (Sum B4 S5)	
5	Triangles		Triangles (Sum B4 S4)
6	Quadrilaterals		Quadrilaterals (Sum B4 S5)
7	Polygons	Recognise and describe 2-D shapes (Sum B4 S7)	Polygons (Sum B4 S6)
8	Draw polygons	Measure and draw accurately (Sum B4 S4) Draw polygons (Sum B4 S8)	
9	Symmetry		Lines of symmetry (Sum B4 S7) Complete a symmetric figure (Sum B4 S8)
10	3-D shapes	Recognise and describe 3-D shapes (Sum B4 S9) Make 3-D shapes (Sum B4 S10)	

Summer 5 – Position and direction

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Describe position using coordinates		Describe position using coordinates (Sum B6 S1)
2	Plot coordinates		Plot coordinates (Sum B6 S2)
3	Draw 2-D shapes on a grid		Draw 2-D shapes on a grid (Sum B6 S3)
4	Translate on a grid		Translate on a grid (Sum B6 S4)
5	Describe translation on a grid		Describe translation on a grid (Sum B6 S5)

Summer 6 – Statistics

	Y3/4 Step	Y3 small steps	Y4 small steps
1	Pictograms	Interpret pictograms (Sum B5 S1) Draw pictograms (Sum B5 S2)	
2	Interpret bar charts	Interpret bar charts (Sum B5 S3)	Interpret charts (Sum B5 S1)
3	Draw bar charts	Draw bar charts (Sum B5 S4)	
4	Comparison, sum and difference		Comparison, sum and difference (Sum B5 S2)
5	Interpret line graphs		Interpret line graphs (Sum B5 S3)
6	Draw line graphs		Draw line graphs (Sum B5 S4)
7	Two-way tables	Two-way tables (Sum B5 S6)	
8	Collect and represent data	Collect and represent data (Sum B5 S5)	

Year 5/6

Autumn 1 – Place Value

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Roman numerals to 1,000	Roman numerals to 1,000 (Aut B1 S1)	
2	Numbers to 100,000	Numbers to 10,000 (Aut B1 S2) Numbers to 100,000 (Aut B1 S3)	
3	Numbers to 1,000,000	Numbers to 1,000,000 (Aut B1 S4)	Numbers to 1,000,000 (Aut B1 S1)
4	Read and write numbers to 1,000,000	Read and write numbers to 1,000,000 (Aut B1 S5)	
5	Numbers to 10,000,000	Numbers to 1,000,000 (Aut B1 S4)	Numbers to 10,000,000 (Aut B1 S2)
6	Read and write numbers to 10,000,000	Read and write numbers to 1,000,000 (Aut B1 S5)	Read and write numbers to 10,000,000 (Aut B1 S3)
7	Powers of 10	Powers of 10 (Aut B1 S6)	Powers of 10 (Aut B1 S4)
8	Partition numbers to 10,000,000	Partition numbers to 1,000,000 (Aut B1 S8)	
9	Number line to 10,000,000	Number line to 1,000,000 (Aut B1 S9)	Number line to 10,000,000 (Aut B1 S5)

Autumn 1 – Place Value

	Y5/6 Step	Y5 small steps	Y6 small steps
10	Compare and order any integers	Compare and order numbers to 100,000 (Aut B1 S10) Compare and order numbers to 1,000,000 (Aut B1 S11)	Compare and order any integers (Aut B1 S6)
11	Round within 100,000	Round to the nearest 10, 100 or 1,000 (Aut B1 S12) Round within 100,000 (Aut B1 S13)	Round any integer (Aut B1 S7)
12	Round any integer	Round to the nearest 10, 100 or 1,000 (Aur B1 S12) Round within 1,000,000 (Aut B1 S14)	Round any integer (Aut B1 S7)
13	Count through zero	Understand negative numbers (Sum B4 S1) Count through zero in 1s (Sum B4 S2) Count through zero in multiples (Sum B4 S3)	Negative numbers (Aut B1 S8)
14	Compare and order negative numbers	Compare and order negative numbers (Sum B4 S4)	Negative numbers (Aut B1 S8)
15	Negative numbers	Find the difference (Sum B4 S5)	Negative numbers (Aut B1 S8)

Autumn 2 – Addition and subtraction

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Mental strategies	Mental strategies (Aut B2 S1)	Mental calculations and estimations (Aut B2 S16)
2	Add integers	Add whole numbers with more than four digits (Aut B2 S2)	Add and subtract integers (Aut B2 S1)
3	Subtract integers	Subtract whole numbers with more than four digits (Aut B2 S3)	Add and subtract integers (Aut B2 S1)
4	Inverse operations and missing numbers	Inverse operations (addition and subtraction) (Aut B2 S5) Find missing numbers (Aut B2 S8) Multi-step addition and subtraction problems (Aut B2 S6)	
5	Reason from known facts	Compare calculations (Aut B2 S7)	Reason from known facts (Aut B2 S17)

Autumn 3 – Multiplication and division A

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Multiples	Multiples (Aut B3 S1)	
2	Common multiples	Common multiples (Aut B3 S2)	Common multiples (Aut B2 S3)
3	Factors	Factors (Aut B3 S3)	
4	Common factors	Common factors (Aut B3 S4)	Common factors (Aut B2 S2)
5	Rules of divisibility		Rules of divisibility (Aut B2 S4)
6	Prime numbers	Prime numbers (Aut B3 S5)	Primes to 100 (Aut B2 S5)
7	Square and cube numbers	Square numbers (Aut B3 S6) Cube numbers (Aut B3 S7)	Square and cube numbers (Aut B2 S6)
8	Multiply by 10, 100 and 1,000	Multiply by 10, 100 and 1,000 (Aut B3 S8) Multiples of 10, 100 and 1,000 (Aut B3 S10)	
9	Divide by 10,100 and 1,000	Divide by 10, 100 and 1,000 (Aut B3 S9) Multiples of 10, 100 and 1,000 (Aut B3 S10)	

Autumn 4 – Fractions A

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Recognise equivalent fractions	Recognise equivalent fractions (Aut B4 S3)	
2	Equivalent fractions and simplifying	Find fractions equivalent to a unit fraction (Aut B4 S1) Find fractions equivalent to a non-unit fraction (Aut B4 S2) Recognise equivalent fractions (Aut B4 S3)	Equivalent fractions and simplifying (Aut B3 S1)
3	Equivalent fractions on a number line	Find fractions equivalent to a non-unit fraction (Aut B4 S2)	Equivalent fractions on a number line (Aut B3 S2)
4	Convert improper fractions to mixed numbers	Convert improper fractions to mixed numbers (Aut B4 S4)	
5	Convert mixed numbers to improper fractions	Convert mixed numbers to improper fractions (Aut B4 S5)	
6	Compare fractions (denominator)	Compare fractions less than 1 (Aut B4 S6) Compare and order fractions greater than 1 (Aut B4 S8)	Compare and order (denominator) (Aut B3 S3)
7	Compare fractions (numerator)	Compare fractions less than 1 (Aut B4 S6) Compare and order fractions greater than 1 (Aut B4 S8)	Compare and order (numerator) (Aut B3 S4)

Autumn 4 – Fractions A

	Y5/6 Step	Y5 small steps	Y6 small steps
8	Order fractions	Order fractions less than 1 (Aut B4 S7) Compare and order fractions greater than 1 (Aut B4 S8)	Compare and order (denominator) (Aut B3 S3) Compare and order (numerator) (Aut B3 S4)
9	Add and subtract fractions with the same denominator	Add and subtract fractions with the same denominator (Aut B4 S9)	
10	Add fractions where one denominator is a multiple of the other	Add fractions within 1 (Aut B4 S10) Add fractions with total greater than 1 (Aut B4 S11)	Add and subtract simple fractions (Aut B3 S5)
11	Add any two fractions		Add and subtract any two fractions (Aut B3 S6)
12	Add mixed numbers	Add to a mixed number (Aut B4 S12) Add two mixed numbers (Aut B4 S13)	Add mixed numbers (Aut B3 S7)
13	Subtract fractions where one denominator is a multiple of the other	Subtract fractions (Aut B4 S14)	Add and subtract simple fractions (Aut B3 S5)
14	Subtract any two fractions		Add and subtract any two fractions (Aut B3 S6)

Autumn 4 – Fractions A

	Y5/6 Step	Y5 small steps	Y6 small steps
15	Subtract from a mixed number	Subtract from a mixed number (Aut B4 S15)	Subtract mixed numbers (Aut B3 S8)
16	Subtract from a mixed number – breaking the whole	Subtract from a mixed number – breaking the whole (Aut B4 S16)	Subtract mixed numbers (Aut B3 S8)
17	Subtract two mixed numbers	Subtract two mixed numbers (Aut B4 S17)	Subtract mixed numbers (Aut B3 S8)
18	Multi-step problems		Multi-step problems (Aut B3 S9)

Autumn 5 – Multiplication and division B

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Multiply a 2-digit number by a 2-digit number	Multiply up to a 4-digit number by a 1-digit number (Spr B1 S1) Multiply a 2-digit number by a 2-digit number (area model) (Spr B1 S2) Multiply a 2-digit number by a 2-digit number (Spr B1 S3)	
2	Multiply up to a 4-digit number by a 2-digit number	Multiply a 3-digit number by a 2-digit number (Spr B1 S4) Multiply a 4-digit number by a 2-digit number (Spr B1 S5)	Multiply up to a 4-digit number by a 2-digit number (Aut B2 S7)
3	Solve problems with multiplication	Solve problems with multiplication (Spr B1 S6)	Solve problems with multiplication (Aut B2 S8)
4	Short division	Short division (Spr B1 S7)	Short division (Aut B2 S9)
5	Divide a 4-digit number by a 1-digit number	Divide a 4-digit number by a 1-digit number (Spr B1 S8) Divide with remainders (Spr B1 S9)	
6	Division using factors		Division using factors (Aut B2 S10)

Autumn 5 – Multiplication and division B

	Y5/6 Step	Y5 small steps	Y6 small steps
7	Introduction to long division		Introduction to long division (Aut B2 S11)
8	Long division with remainders		Long division with remainders (Aut B2 S12)
9	Solve problems with division	Solve problems with multiplication and division (Spr B1 S11)	Solve problems with division (Aut B2 S13)
10	Efficient division	Efficient division (Spr B1 S10)	
11	Solve multi-step problems	Solve problems with multiplication and division (Spr B1 S11)	Solve multi-step problems (Aut B2 S14)
12	Order of operations		Order of operations (Aut B2 S15)
13	Mental calculations and estimation		Mental calculations and estimation (Aut B2 S16)
14	Reason from known facts		Reason from known facts (Aut B2 S17)

Spring 1 – Fractions B

	Step	Y5 small steps	Y6 small steps
1	Multiply a unit fraction by an integer	Multiply a unit fraction by an integer (Spr B2 S1)	Multiply fractions by integers (Aut B4 S1)
2	Multiply a non-unit fraction by an integer	Multiply a non-unit fraction by an integer (Spr B2 S2)	Multiply fractions by integers (Aut B4 S1)
3	Multiply a mixed number by an integer	Multiply a mixed number by an integer (Spr B2 S3)	Multiply fractions by integers (Aut B4 S1)
4	Multiply fractions by fractions		Multiply fractions by fractions (Aut B4 S2)
5	Divide a fraction by an integer		Divide a fraction by an integer (Aut B4 S3)
6	Divide any fraction by an integer		Divide any fraction by an integer (Aut B4 S4)
7	Fraction of an amount	Fraction of an amount (Spr B2 S5) Calculate a fraction of a quantity (Spr B2 S4)	Fraction of an amount (Aut B4 S6)
8	Fraction of an amount – find the whole	Find the whole (Spr B2 S6)	Fraction of an amount – find the whole (Aut B4 S7)

Spring 2 – Decimals A

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Decimals up to 2 decimal places	Decimals up to 2 decimal places (Spr B3 S1)	Place value within 1 (Spr B3 S1)
2	Decimals up to 3 decimal places	Thousandths as fractions (Spr B3 S5) Thousandths as decimals (Spr B3 S6) Thousandths on a place value chart (Spr B3 S7)	Place value within 1 (Spr B3 S1)
3	Place value – integers and decimals		Place value – integers and decimals (Spr B3 S2)
4	Order and compare decimals (same number of decimal places)	Order and compare decimals (same number of decimal places) (Spr B3 S8)	
5	Order and compare decimals with up to 3 decimal places	Order and compare decimals with up to 3 decimal places (Spr B3 S9)	
6	Round to the nearest whole number	Round to the nearest whole number (Spr B3 S10)	Round decimals (Spr B3 S3)
7	Round to 1 decimal place	Round to 1 decimal place (Spr B3 S11)	Round decimals (Spr B3 S3)
8	Round to 2 decimal places		Round decimals (Spr B3 S3)

Spring 3 – Area, perimeter and volume

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Perimeter of rectangles and rectilinear shapes	Perimeter of rectangles (Spr B4 S1) Perimeter of rectilinear shapes (Spr B4 S2)	Area and perimeter (Spr B5 S2)
2	Area of rectangles	Area of rectangles (Spr B4 S4)	Shapes – same area (Spr B5 S1) Area and perimeter (Spr B5 S2)
3	Area of compound shapes	Area of compound shapes (Spr B4 S5)	Shapes – same area (Spr B5 S1) Area and perimeter (Spr B5 S2)
4	Estimate area	Estimate area (Spr B4 S6)	
5	Area of triangles		Area of a triangle – counting squares (Spr B5 S3) Area of right-angled triangle (Spr B5 S4) Area of any triangle (Spr B5 S5)
6	Area of parallelograms		Area of a parallelogram (Spr B5 S6)
7	Volume – cubic centimetres	Cubic centimetres (Sum B6 S1)	Volume – counting cubes (Spr B5 S7)
8	Volume of a cuboid		Volume of a cuboid (Spr B5 S8)
9	Compare volume	Compare volume (Sum B6 S2)	
10	Estimate volume and capacity	Estimate volume (Sum B6 S3) Estimate capacity (Sum B6 S4)	

Spring 4 – Decimals B

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Use known facts to add and subtract decimals within 1	Use known facts to add and subtract decimals within 1 (Sum B3 S1)	Add and subtract decimals (Spr B3 S4)
2	Complements to 1	Complements to 1 (Sum B3 S2)	Add and subtract decimals (Spr B3 S4)
3	Add and subtract decimals across 1	Add and subtract decimals across 1 (Sum B3 S3)	Add and subtract decimals (Spr B3 S4)
4	Add decimals with the same number of decimal places	Add decimals with the same number of decimal places (Sum B3 S4)	Add and subtract decimals (Spr B3 S4)
5	Subtract decimals with the same number of decimal places	Subtract decimals with the same number of decimal places (Sum B3 S5)	Add and subtract decimals (Spr B3 S4)
6	Add decimals with different numbers of decimal places	Add decimals with different numbers of decimal places (Sum B3 S6)	Add and subtract decimals (Spr B3 S4)
7	Subtract decimals with different numbers of decimal places	Subtract decimals with different numbers of decimal places (Sum B3 S7)	Add and subtract decimals (Spr B3 S4)
8	Efficient strategies	Efficient strategies for adding and subtracting decimals (Sum B3 S8)	Add and subtract decimals (Spr B3 S4)
9	Decimal sequences	Decimal sequences (Sum B3 S9)	

Spring 4 – Decimals B

	Y5/6 Step	Y5 small steps	Y6 small steps
10	Multiply by 10, 100 and 1,000	Multiply by 10, 100 and 1,000 (Sum B3 S10)	Multiply by 10, 100 and 1,000 (Spr B3 S5)
11	Divide by 10, 100 and 1,000	Divide by 10, 100 and 1,000 (Sum B3 S11)	Divide by 10, 100 and 1,000 (Spr B3 S6)
12	Multiply decimals by integers		Multiply decimals by integers (Spr B3 S7)
13	Divide decimals by integers		Divide decimals by integers (Spr B3 S8)
14	Multiply and divide decimals in contexts	Multiply and divide decimals – missing values (Sum B3 S12)	Multiply and divide decimals in contexts (Spr B3 S9)

Spring 5 – Fractions, decimals and percentages

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Equivalent fractions and decimals – tenths	Equivalent fractions and decimals (tenths) (Spr B3 S2) Equivalent fractions and decimals (Spr B3 S4)	Decimal and fraction equivalents (Spr B4 S1)
2	Equivalent fractions and decimals – hundredths	Equivalent fractions and decimals (hundredths) (Spr B3 S3) Equivalent fractions and decimals (Spr B3 S4)	Decimal and fraction equivalents (Spr B4 S1)
3	Equivalent fractions and decimals – thousandths	Equivalent fractions and decimals (Spr B3 S4) Thousandths as fractions (Spr B3 S5) Thousandths as decimals (Spr B3 S6)	Decimal and fraction equivalents (Spr B4 S1)
4	Fractions as division		Fractions as division (Spr B4 S2)
5	Understand percentages	Understand percentages (Spr B3 S12)	Understand percentages (Spr B4 S3)
6	Percentages as fractions	Percentages as fractions (Spr B3 S13)	Fractions to percentages (Spr B4 S4)
7	Percentages as decimals	Percentages as decimals (Spr B3 S14)	

Spring 5 – Fractions, decimals and percentages

	Y5/6 Step	Y5 small steps	Y6 small steps
8	Equivalent fractions, decimals and percentages	Equivalent fractions, decimals and percentages (Spr B3 S15)	Equivalent fractions, decimals and percentages (Spr B4 S5)
9	Order fractions, decimals and percentages		Order fractions, decimals and percentages (Spr B4 S6)
10	Percentages of an amount		Percentages of an amount – one step (Spr B4 S7) Percentages of an amount – multi-step (Spr B4 S8) Percentages – missing values (Spr B4 S9)

Summer 1 – Ratio

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Add or multiply?		Add or multiply? (Spr B1 S1)
2	Use ratio language		Use ratio language (Spr B1 S2) Introduction to the ratio symbol (Spr B1 S3)
3	Ratio and fractions		Ratio and fractions (Spr B1 S4) Introduction to the ratio symbol (Spr B1 S3)
4	Use scale factors		Scale drawing (Spr B1 S5) Use scale factors (Spr B1 S6)
5	Similar shapes		Similar shapes (Spr B1 S7)
6	Ratio problems		Ratio problems (Spr B1 S8)
7	Proportion problems		Proportion problems (Spr B1 S9) Recipes (Spr B1 S10)

Summer 2 – Algebra

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Function machines		1-step function machines (Spr B2 S1) 2-step function machines (Spr B2 S2)
2	Form expressions		Form expressions (Spr B2 S3)
3	Substitution		Substitution (Spr B2 S4)
4	Formulae		Formulae (Spr B2 S5)
5	Form equations		Form equations (Spr B2 S6)
6	Solve equations		Solve 1-step equations (Spr B2 S7) Solve 2-step equations (Spr B2 S8)
7	Find pairs of values		Find pairs of values (Spr B2 S9)
8	Solve problems with two unknowns		Solve problems with two unknowns (Spr B2 S10)

Summer 3 – Shape

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Understand and use degrees	Understand and use degrees (Sum B1 S1)	
2	Classify angles	Classify angles (Sum B1 S2) Estimate angles (Sum B1 S3)	Measure and classify angles (Sum B1 S1)
3	Measure angles	Measure angles up to 180° (Sum B1 S4) Estimate angles (Sum B1 S3)	Measure and classify angles (Sum B1 S1)
4	Calculate angles around a point	Calculate angles around a point (Sum B1 S6)	Calculate angles (Sum B1 S2)
5	Calculate angles on a straight line	Calculate angles on a straight line (Sum B1 S7)	Calculate angles (Sum B1 S2)
6	Vertically opposite angles		Vertically opposite angles (Sum B1 S3)
7	Angles in a triangle	Lengths and angles in shapes (Sum B1 S8)	Angles in a triangle (Sum B1 S4) Angles in a triangle – missing angles (Sum B1 S4 6)

Summer 3 – Shape

	Y5/6 Step	Y5 small steps	Y6 small steps
8	Angles in a triangle – special cases	Lengths and angles in shapes (Sum B1 S8)	Angles in a triangle – special cases (Sum B1 S5) Angles in a triangle – missing angles (Sum B1 S6)
9	Angles in quadrilaterals	Lengths and angles in shapes (Sum B1 S8)	Angles in a quadrilateral (Sum B1 S7)
10	Regular polygons	Regular and irregular polygons (Sum B1 S9) Lengths and angles in shapes (Sum B1 S8)	Angles in polygons (Sum B1 S8)
11	Irregular polygons	Regular and irregular polygons (Sum B1 S9) Lengths and angles in shapes (Sum B1 S9)	Angles in polygons (Sum B1 S8)
12	Circles		Circles (Sum B1 S9)
13	Draw shapes	Draw lines and angles accurately (Sum B1 S5)	Draw shapes accurately (Sum B1 S10)
14	3-D shapes	3-D shapes (Sum B1 S10)	Nets of 3-D shapes (Sum B1 S11)

Summer 4 – Position and direction

	Y5/6 Step	Y5 small steps	Y6 small steps
1	The first quadrant	Read and plot coordinates (Sum B2 S1)	The first quadrant (Sum B2 S1)
2	Four quadrants		Read and plot points in four quadrants (Sum B2 S2)
3	Solve problems with coordinates	Problem solving with coordinates (Sum B2 S2)	Solve problems with coordinates (Sum B2 S3)
4	Translations	Translation (Sum B2 S3) Translation with coordinates (Sum B2 S4)	Translations (Sum B2 S4)
5	Lines of symmetry	Lines of symmetry (Sum B2 S5)	
6	Reflections	Reflection in horizontal and vertical lines (Sum B2 S6)	Reflections (Sum B2 S5)

Summer 5 – Statistics

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Draw line graphs	Draw line graphs (Spr B5 S1)	Line graphs (Spr B6 S1)
2	Read and interpret line graphs	Read and interpret line graphs (Spr B5 S2)	Line graphs (Spr B6 S1)
3	Bar charts (to include dual bar charts)		Dual bar charts (Spr B6 S2)
4	Tables (to include two-way table)	Read and interpret tables (Spr B5 S3) Two-way tables (Spr B5 S4)	
5	Timetables	Read and interpret timetables (Spr B5 S5)	
6	Read and interpret pie charts		Read and interpret pie charts (Spr B6 S3)
7	Pie charts with percentages		Pie charts with percentages (Spr B6 S4)
8	Draw pie charts		Draw pie charts (Spr B6 S5)
9	The mean		The mean (Spr B6 S6)

Summer 6 – Converting units

	Y5/6 Step	Y5 small steps	Y6 small steps
1	Kilograms and kilometres	Kilograms and kilometres (Sum B5 S1)	Metric measures (Aut B5 S1) Convert metric measures (Aut B5 S2) Calculate with metric measures (Aut B5 S3)
2	Millimetres and millilitres	Millimetres and millilitres (Sum B5 S2)	Metric measures (Aut B5 S1) Convert metric measures (Aut B5 S2) Calculate with metric measures (Aut B5 S3)
3	Convert units of length	Convert units of length(Sum B5 S3)	Metric measures (Aut B5 S1) Convert metric measures (Aut B5 S2) Calculate with metric measures (Aut B5 S3)
4	Miles and kilometres		Miles and kilometres (Aut B5 S4)
5	Imperial measures	Convert between metric and imperial units (Sum B5 S4)	Imperial measure (Aut B5 S5)
6	Convert units of time	Convert units of time (Sum B5 S5)	
7	Calculate with timetables	Calculate with timetables (Sum B5 S6)	