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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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

White Rose MATHS

	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)	