

Year 5/6 Mixed Year Group Guidance

Last Updated: September 2024

Year 5/6 mixed year groups to follow the year 6 White Rose Maths order. The year 5 objectives have been matched to this. Although we're using White Rose Maths to support with planning, the year 5/6 maths curriculum has been carefully planned and adapted overtime to ensure coverage prior to SATs. This means some units may be taught in a different order and small steps combined to cover multiple small steps within one lesson.

Highlighted objectives are standalone and need to be only taught to that year group. The other year group to continue with more mastery, problem solving and reasoning from the previous objective, depending if they are ready to move on or not.

It is ok if year 6s need to do the year 5 objectives also if AFL through the pre-task has shown this

To book y year os need to the year 5 objectives taso y ni E thou		
Year 5	Year 6	Notes and
		Guidance
Au Block 1 – Number: Place Value	Au Block 1 – Number: Place Value	
Su Block 4 – Number: Negative Numbers		
1. Numbers to 10,000	1. Numbers to ten million	Where objectives are
2. Roman numerals to 1000	2. Compare and order any number	similar but different
3. Round to nearest 10, 100, 1000	3. Round any number	size numbers, make
4. Numbers to 100,000	4. Negative numbers	sure examples of both
5. Compare and order numbers to 100,000		are given in the
6. Round numbers within 100,000	White Rose Maths 2024	teaching input.
7. Numbers to a million	These may be used to adjust planning, break down learning further or	> 1, 1, 4, 7
8. Counting in 10s, 100s, 1000s, 10000s and 100000s	add in additional questions to lessons.	> 2,5, 9
9. Compare and order numbers to one million	1. Numbers to 1,000,000	> 3, 3, 6, 10
10. Round numbers to one million	2. Numbers to 10,000,000	> 4, 11
11. Negative numbers	3. Read and write numbers to 10,000,000	➤ 2 year 6s to have
	4. Powers of 10	the opportunity
White Rose Maths 2024	5. Number line to 10,000,000	to consolidate
These may be used to adjust planning, break down learning further or	6. Compare and order any integers	any year5
add in additional questions to lessons.	7. Round any integer	objectives or
1. Roman numerals to 1000	8. Negative numbers	move on to
2. Numbers to 10,000		applying through
3. Numbers to 100, 000		problem solving
4. Numbers to 1,000,000		and reasoning
5. Read and write numbers to 1,000,000		
6. Powers of 10		8 to be covered
7. 10/100/1000/10,000/100,000 more of less		through starters,

 8. Partition numbers to 1,000,000 9. Number line to 1,000,000 10. Compare and order numbers to 100,000 11. Compare and order numbers to 1,000,000 12. Round to the nearest 10,100, 1000 13. Round within 100,000 	plenting taslerimary – School –
14. Round within 1,000,000	
There has been an additional block added to year 5 around negative numbers	
15. Understand negative number	
16. Count through zero in 1s	
17. Count through zero in multiples	
18. Compare and order negative numbers	
19. Find the difference	



Au Block 2 – Number: Addition and Subtraction	Au Block 2 – Number: Addition, Subtraction, Multiplication and	
	Division	
Au Block 3 – Number: Multiplication and Division		
Spr Block 1 – Number: Multiplication and Division		
1. Add whole numbers with more than 4 digits (column method)	30. Add and subtract integers	Where objectives are
2. Subtract whole numbers with more than 4 digits (column method)	31. Multiply up to a 4 digit number by a 2 digit number	similar but different
3. Round to estimate and approximate	32. Short division	size numbers, make
4. Inverse operations (addition and subtraction)	33. Division using factors	sure examples of both
5. Multi-step addition and subtraction problems	34. Long division (1)	are given in the
6. Multiples	<mark>35. Long division (2)</mark>	teaching input.
7. Factors	<mark>36. Long division (3)</mark>	▶ 1, 1, 2
8. Common factors	37. Long division (4)	> 3
9. Prime numbers	38. Common factors	> 4
10. Square numbers	39. Common multiples	▶ 12, 13, 14
11. Cube numbers	40. Primes to 100	> 15
<mark>12. Multiply by 10, 100, 1000</mark>	41. Squares and cubes	2, 16, 17, 18, 19
13. Divide by 10, 100 and 1000	42. Order of operations	> 3, 20, 21
14. Multiples of 10, 100, 1000	43. Mental calculations and estimation	> 5,6,7, 8
15. Multiply 4-digits by 1-digit	44. Reason from known facts	> 10, 6
16. Multiply 2-digits (area model)		> 9, 7, 8
17. Multiply 2-digits by 2-digits	White Rose Maths 2024	> 11, 9
18. Multiply 3-digits by 2-digits	These may be used to adjust planning, break down learning further or	▶ 12, 10
19. Multiply 4-digits by 2-digits	add in additional questions to lessons.	> 12, 11
20. Divide 4-digits by 1-digit	1. Add and subtract integers	> 13
21. Divide with remainders	2. Common factors	> 14
	3. Common multiples	> 15
White Rose Maths 2024	4. Rules of divisibility	> 5
These may be used to adjust planning, break down learning further or	5. Primes to 100	
add in additional questions to lessons.	6. Square and cube numbers	4 (To be done
1. Mental strategies	7. Multiply up to a 4-digit number by a 2-digit number	through mental
2. Add whole numbers with more than four digits	8. Solve problems with multiplication	maths, starters, etc.
3. Subtract whole numbers with more than four digits	9. Short division	regularly, little and
4. Round to check answers	10. Division using factors	often)
5. Inverse operations (addition and subtraction)	11. Introduction to long division	
6. Multi-step addition and subtraction problems	12. Long division with remainders	
7. Compare calculations	13. Solve problems with division	

8. Find missing numbers	14. Solve multi-step problems	🖉 Hirs
	15. Order of operations	Primary
9. Multiples	16. Mental calculations and estimation	– School –
10. Common multiples		
11. Factors		
12. Common factors		
13. Prime factors		
14. Square numbers		
15. Cube numbers		
16. Multiply by 10, 100 and 1000		
17. Divide by 10,00 and 1000		
18. Multiples of 10, 100 and 1000		
19. Multiply up to a 4-digit number by a 1-digit number		
20. Multiply a 2-digit number by a 2-digit number (area model)		
21. Multiply a 2 digit number by a 2 digit number		
22. Multiply a 3 digit number by a 2 digit number		
23. Multiply a 4 digit number by a 2 digit number		
24. Solve problems with multiplication		
25. Short division		
26. Divide a 4 digit number by a 1 digit number		
27. Divide with remainders		
28. Efficient division		
29. Solve problems with multiplication and division		



Au Block 4 – Number: Fractions	Au Block 3 and 4 – Number: Fractions	
Spr Block 2 – Number: Fractions		
1. Equivalent fractions	25. Simplify fractions	▶ 1.
2. Improper fractions to mixed numbers	26. Fractions on a number line	> 1, > 1.
3. Mixed numbers to improper fractions	27. Compare and order (denominator)	\rightarrow 2,
4. Number sequences	28. Compare and order (numerator)	> 3,
5. Compare and order fractions less than 1	29. Add and subtract fractions (1)	> 2, 4
6. Compare and order fractions greater than 1	30. Add and subtract fractions (2)	 2, 4 3, 4, 5, 6
7. Add and subtract fractions	31. Add fractions	 5, 4, 5, 6 5, 6, 7, 8, 9, 7, 8,
8. Add fractions within 1	32. Subtract fractions	9, 10, 11, 12, 13,
9. Add 3 or more fractions	33. Mixed addition and subtraction	9, 10, 11, 12, 13, 14
10. Add fractions	34. Multiply fractions by integers	▶ 10, 16, 17
11. Add mixed numbers	35. Multiply fractions by fractions	 ▶ 10, 10, 17 ▶ 11,
12. Subtract fractions	36. Divide fractions by integers (1)	▶ 12, 13,
13. Subtract mixed numbers	37. Divide fractions by integers (2)	 ▶ 12, 13, ▶ 14,
14. Subtract – breaking the whole	38. Four rules with fractions	▶ 14,▶ 15, 18
14. Subtract – Breaking the whole 15. Subtract 2 mixed numbers	39. Fractions of an amount	▶ 15, 18▶ 16
16. Multiply unit fractions by an integer	40. Fractions of an amount – find the whole	► 10
17. Multiply mixed numbers by integers	40. Flucions of all anoma – Jula die whole	➢ 19 to be taught
	White Rose Maths 2024	3
 Fractions of an amount Using fractions as operators 	These may be used to adjust planning, break down learning further or	as a plenary once fractions of
19. Osiriy fractions as operators	add in additional questions to lessons.	amount and
White Rose Maths 2024		
	1. Equivalent fractions and simplifying	multiplying factions has been
These may be used to adjust planning, break down learning further or add in additional questions to lessons.	 Equivalent fractions on a number line Compare and order (denominator) 	
 Find fractions equivalent to a unit fraction 		taught
	4. Compare and order (numerator)	
2. Find fractions equivalent to a non-unit fraction	5. Add and subtract simple fractions	
3. Recognise equivalent fractions	 Add and subtract any two fractions Add mixed numbers 	
4. Convert improper fractions to mixed numbers		
5. Convert mixed numbers to improper fractions		
6. Compare fractions less than 1	9. Multi-step problems	
7. Order fractions less than 1	10. Multiply fractions by integers	
8. Compare and order fractions greater than 1	10. Multiply fractions by integers	
9. Add and subtract fractions with the same denominator	11. Multiply fractions by fractions	
10. Add fractions within 1	12. Divide a fraction by an integer	

11. Add fractions with total greater than 1	13. Divide any fraction by an integer	😻 Firs
12. Add to a mixed number	14. Mixed questions with fractions	Primary
13. Add two mixed numbers	15. Fractions of an amount	– School –
14. Subtract fractions	16. Fractions of an amount – find the whole	
15. Subtract from a mixed number		
16. Subtract from a mixed number – breaking the whole		
17. Subtract two mixed numbers		
18. Multiply a unit fraction by an integer		
19. Multiply a non-unit fraction by an integer		
20. Multiply a mixed number by an integer		
21. Calculate a fraction of a quantity		
22. Fraction of an amount		
23. Find the whole		
24. Use fractions as operators		



Su Block 2 – Geometry: Position and Direction	Su Block 2 – Geometry: Position and Direction	
1. Position in the first quadrant	7. The first quadrant	▶ 1, 1,
2. Reflection	8. Four quadrants	▶ 2
3. Reflection with co-ordinates	9. Translations	> 3, 4, 5
4. Translation	10. Reflections	▶ 4, 2, 3
5. Translation with co-ordinates		
	White Rose Maths 2024	
White Rose Maths 2024	These may be used to adjust planning, break down learning further or	
These may be used to adjust planning, break down learning further or	add in additional questions to lessons.	
add in additional questions to lessons.	1. The first quadrant	
1. Read and plot co-ordinates	2. Read and plot points in four quadrants	
2. Problem solving with co-ordinates	3. Solve problems with co-ordinates	
3. Translation	4. Translations	
4. Translation with co-ordinates	5. Reflections	
5. Lines of symmetry		
6. Reflection in horizontal and vertical lines		



	Spr Block 3 – Number: Decimals	
Su Block 3 – Number: Decimals		
1. Decimals up to 2 d.p.	1. Three decimal places	▶ 1, 1, 4
2. Decimals as fractions (1)	2. Multiply by 10, 100 and 1,000	> 17
3. Decimals as fractions (2)	3. Divide by 10, 100 and 1,000	> 6
4. Understand thousandths	4. Multiply decimals by integers	> 7
	5. Divide decimals by integers	> 8, 9, 10, 11, 12,
	6. <mark>Division to solve problems</mark>	13, 14, 15, 16
7. Order and compare decimals	7. Decimals as fractions	≻ 4
	8. Fractions to decimals (1)	> 5,6
	9. <mark>Fractions to decimals (2)</mark>	▶ 7, 2, 3, 5
10. Complements to 1		> 8, 9
	White Rose Maths 2024	
	These may be used to adjust planning, break down learning further or	
	add in additional questions to lessons.	2, 3, 18, 19
14. Adding decimals with a different number of decimal places	1. Place value within 1	(Completed as
15. Subtracting decimals with a different number of decimal places	2. Place value – integers and decimals	part of the four
16. Adding and subtracting wholes and decimals	3. Round decimals	operations unit)
17. Decimal sequences	4. Add and subtract decimals	
18. Multiplying decimals by 10, 100, 1000	5. Multiply by 10, 100 and 1000	
19. Dividing decimals by 10, 100, 1000	6. Divide by 10, 100 and 1000	
	7. Multiply decimals by integters	
White Rose Maths 2024	8. Divide decimals by integers	
These may be used to adjust planning, break down learning further or	9. Multiply and divide decimals in context	
add in additional questions to lessons.		
1. Decimals up to 2 decimal places		
2. Equivalent fractions and decimals (tenths)		
3. Equivalent fractions and decimals (hundredths)		
4. Equivalent fractions and decimals		
5. Thousandths as fractions		
6. Thousandths as decimals		
7. Thousandths on a place value chart		
8. Order and compare decimals (same number o decimal places)		
9. Order and compare any decimals with up to 3 decimal places		
10. Round to the nearest whole number		

11. Round to 1 decimal place		😻 Firs
12. Understand percentages		Primary
13. Percetages as fractions		– School –
14. Percentages as decimals		
15. Equivalent fractions, decimals and percentages		
16. Use known facts to add and subtract decimals within 1		
17. Complements to 1		
18. Add and subtract decimals across 1		
19. Add decimals with the same number of decimal places		
20. Subtract decimals with the same number of decimal places		
21. Add decimals with different numbers of decimal places		
22. Subtract decimals with different numbers of decimal places		
23. Efficient strategies for adding and subtracting decimals		
24. Decimal sequences		
25. Multiply by 10, 100 and 1000		
26. Divide by 10, 100 and 1000		
27. Multiply and divide decimals – missing values		
	Spr Block 4 – Number: Fractions Decimals and Percentages	
1. Understand percentages	1. Fractions to percentages	> 1
		> 1
 Percentages as fractions and decimals Equivalent F.D.P. 	2. Equivalent FDP 3. Order FDP	
S. Equivalent F.D.P.		
White Rose Maths 2024	4. Percentage of an amount (1)	 > 3 > 4, 5.
	5. Percentage of an amount (2)	, .,
These may be used to adjust planning, break down learning further or	6. <mark>Percentages – missing values</mark>	≻ 6,
add in additional questions to lessons.	White Rose Maths 2024	Year 5s to be given
See the above objectives as the units have been merged		the opportunity to
	These may be used to adjust planning, break down learning further or	consolidate previous
	add in additional questions to lessons.	units and complete
	1. Decimal and Fraction Equivalents	problem solving and
	2. Fractions as Division	reasoning to extend
	3. Understand Percentages	their understanding.
	4. Fractions to Percentages	
	5. Equivalent fractions, decimals and percentages	
	6. Order fractions, decimals and percentages	
	7. Percentages of an amount – one step	
	8. Percentages of an amount – multi-step	
	9. Percentages – missing values	



Spr Block 2 – Number: Algebra	
 Find a rule – one step Find a rule – two step Forming expressions Substitution Formulae Forming equations Solve simple one-step equations Solve two-step equations Solve two-step equations Find pairs of values Enumerate possibilities White Rose Maths 2024 The steps are the same as above (slightly renamed). 	Algebra to be taught to the year 6s only. Year 5s to be given the opportunity to consolidate previous units and complete problem solving and reasoning to extend their understanding.



Su Block 5 – Measurement: Converting Units	Au Block 5 – Measurement: Converting Units	
1. Kilograms and kilometres	1. Metric measures	▶ 1, 3
2. Milligrams and millimetres	2. Convert metric measures	> 2, 3 1, 2
3. Metric units	3. Calculate with metric measures	▶ 4
4. Imperial units	4. Miles and kilometres	> 5, 4
5. Converting units of time	5. Imperial measures	▶ 5,
6. <mark>Timetables</mark>		➤ 6,
	White Rose Maths 2024	
White Rose Maths 2024	The steps are the same as above	
These may be used to adjust planning, break down learning further or		
add in additional questions to lessons.		
The steps are the same as above (named slightly different)		



Spr Block 4 – Measurement: Perimeter and Area	Spr Block 5 – Measurement: Perimeter, Area and Volume	
Su Block 6 – Measurement: Volume		
1. Measure perimeter	1. Shapes – same area	▶ 1, 2
2. Calculate perimeter	2. Area and perimeter	≥ 2
3. Area of rectangles	3. Area of a triangle (1)	▶ 1, 3
4. Area of compound shapes	4. Area of a triangle (2)	▶ 4,5
5. Area of irregular shapes	5. Area of a triangle (3)	> 3, 4, 5
6. What is volume?	6. Area of parallelogram	▶ 6,
7. Compare volume	7. Volume – counting cubes Volume of a cuboid	▶ 7, 6, 7, 8, 9
8. Estimate volume		
9. Estimate capacity	White Rose Maths 2024	
	These may be used to adjust planning, break down learning further or	
White Rose Maths 2024	add in additional questions to lessons.	
These may be used to adjust planning, break down learning further or	1. Shapes – same area	
add in additional questions to lessons.	2. Area and perimeter	
1. Perimeter of rectangles	3. Area of a triangle – counting squares	
2. Perimeter or rectilinear shapes	4. Area of a right-angled triangle	
3. Perimeter of polygons	5. Area of any triangle	
4. Area of rectangles	6. Area of a parallelogram	
5. Area of compound shapes	7. Volume – counting cubes	
6. Estimate area	8. Volume of a cuboid	
7. Cubic centimetres		
8. Compare volume		
9. Estimate volume		
10. Estimate capacity		



Spr Block 1 – Number: Ratio	
 Spr Bock 1 - Number: Katto Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio Using scale factors. Calculating scale factors Ratio and proportion problems White Rose Maths 2024 These may be used to adjust planning, break down learning further or add in additional questions to lessons. Add or multiply? Use ratio language Introduction to the ratio symbol Ratio and fractions Scale drawing Use scale Similar shapes Ratio problems 	Ratio to be taught to the year 6s only. Year 5s to be given the opportunity to consolidate previous units and complete problem solving and reasoning to extend their understanding.



Su Block 1 – Geometry: Properties of Shapes	Su Block 1 – Geometry: Shape	
1. Measuring angles in degrees	11. Measure with a protractor	1, 2, 1, 2, 3
2. Measuring with a protractor (1)	12. Introduce angles	> 3
3. Measuring with a protractor (2)	13. Calculate angles	▶ 5,
4. Drawing lines and angles accurately	14. Vertically opposite angles	▶ 6,
5. Calculation angles on a straight line	15. Angles in a triangle	▶ 4
6. Calculating angles around a point	16. Angles in a triangle – special cases	> 5, 6, 7,
7. Calculating lengths and angles in shapes	17. Angles in a triangle – missing angles	▶ 8,
8. Regular and irregular polygons	18. Angles in special quadrilaterals	▶ 9,
9. Reasoning about 3D Shapes	19. Angles in regular polygons	10, 4, 7
	20. Draw shapes accurately	11, 8, 9
White Rose Maths 2024	21. Draw nets of 3D shapes	
These may be used to adjust planning, break down learning further or		
add in additional questions to lessons.	White Rose Maths 2024	
1. Understand and use degrees	These may be used to adjust planning, break down learning further or	
2. Classify angles	add in additional questions to lessons.	
3. Estimate angles	1. Measure and classify angles	
4. Measure angles up to 180 degrees	2. Calculate angles	
5. Draw lines and angles accurately	3. Vertically opposite angles	
6. Calculate angles around a point	4. Angles in a triangle	
7. Calculate angles on a straight line	5. Angles in a triangle – special cases	
8. Lengths and angles in shapes	6. Angles in a triangle – missing angles	
9. Regular and irregular polygons	7. Angles in quadrilaterals	
10. 3D shapes	8. Angles in polygons	
	9. Circles	
	10. Draw shapes accurately	
	11. Nets of 3D shapes	



Spr Block 5 - Statistics	Spr Block 6 – Statistics	
1. Read and interpret line graphs	6. Read and interpret line graphs	Could also be taught
2. Draw line graphs	7. Draw line graphs	through science
3. Use line graphs to solve problems	8. Use line graphs to solve problems	➤ 4 (to be taught
4. Read and interpret tables	9. Circles	first to link with
<mark>5. Two-way tables</mark>	10. Read and interpret pie charts	geometry)
6. <mark>Timetables</mark>	11. Pie charts with percentages	> 1, 1
	12. Draw pie charts	▶ 2,2
White Rose Maths 2024	13. The mean	> 3, 3
These may be used to adjust planning, break down learning further or		▶ 4,
add in additional questions to lessons.	White Rose Maths 2024	▶ 5,
1. Drawline graphs	These may be used to adjust planning, break down learning further or	▶ 6,
2. Read and interpret line graphs	add in additional questions to lessons.	▶ 5,
3. Read and interpret tables	1. Line graphs	▶ 6,
4. Two-way tables	2. Dual bar charts	▶ 7,
5. Read and interpret timetables	3. Read and interpret pie charts	> 8
	4. Pie charts with percentages	
	5. Draw pie charts	
	6. The mean	