

Year 5/6 Mixed Year Group Guidance

Last Updated: September 2021

Year 5/6 mixed year groups to follow the year 6 White Rose Maths order. The year 5 objectives have been matched to this. 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

Year 5	Year 6	Notes and Guidance
Au Block 1 – Number: Place Value	Au Block 1 – Number: Place Value	
1. Numbers to 10,000 2. Roman numerals to 1000 3. Round to nearest 10, 100, 1000 4. Numbers to 100,000 5. Compare and order numbers to 100,000 6. Round numbers within 100,000 7. Numbers to a million 8. Counting in 10s, 100s, 1000s, 10000s and 100000s 9. Compare and order numbers to one million 10. Round numbers to one million 11. Negative numbers	1. Numbers to ten million 2. Compare and order any number 3. Round any number 4. Negative numbers	Where objectives are similar but different size numbers, make sure examples of both are given in the teaching input. ➤ 1, 1, 4, 7 ➤ 2,5, 9 ➤ 3, 3, 6, 10 ➤ 4, 11 ➤ 2 year 6s to have the opportunity to consolidate any year5 objectives or move on to applying through problem solving and reasoning 8 to be covered through starters, plenaries, morning tasks
Au Block 2 – Number: Addition and Subtraction Au Block 4 – Number: Multiplication and Division Spr Block 1 – Number: Multiplication and Division	Au Block 2 – Number: Four Operations	
1. Add whole numbers with more than 4 digits (column method) 2. Subtract whole numbers with more than 4 digits (column method) 3. Round to estimate and approximate 4. Inverse operations (addition and subtraction) 5. Multi-step addition and subtraction problems	1. Add and subtract integers 2. Multiply up to a 4 digit number by a 2 digit number 3. Short division 4. Division using factors 5. Long division (1) 6. Long division (2)	Where objectives are similar but different size numbers, make sure examples of both are given in the teaching input. ➤ 1, 1, 2 ➤ 3 ➤ 4 ➤ 12, 13, 14

<ul style="list-style-type: none"> 6. Multiples 7. Factors 8. Common factors 9. Prime numbers 10. Square numbers 11. Cube numbers 12. Multiply by 10, 100, 1000 13. Divide by 10, 100 and 1000 14. Multiples of 10, 100, 1000 15. Multiply 4-digits by 1-digit 16. Multiply 2-digits (area model) 17. Multiply 2-digits by 2-digits 18. Multiply 3-digits by 2-digits 19. Multiply 4-digits by 2-digits 20. Divide 4-digits by 1-digit 21. Divide with remainders 	<ul style="list-style-type: none"> 7. Long division (3) 8. Long division (4) 9. Common factors 10. Common multiples 11. Primes to 100 12. Squares and cubes 13. Order of operations 14. Mental calculations and estimation 15. Reason from known facts 	<ul style="list-style-type: none"> ➤ 15 ➤ 2, 16, 17, 18, 19 ➤ 3, 20, 21 ➤ 5,6,7, 8 ➤ 10, 6 ➤ 9, 7, 8 ➤ 11, 9 ➤ 12, 10 ➤ 12, 11 ➤ 13 ➤ 14 ➤ 15 ➤ 5 <p>4 (To be done through mental maths, starters, etc. regularly, little and often)</p>
<p>Spr Block 2 – Number: Fractions</p>	<p>Au Block 3 – Number: Fractions</p>	
<ul style="list-style-type: none"> 1. Equivalent fractions 2. Improper fractions to mixed numbers 3. Mixed numbers to improper fractions 4. Number sequences 5. Compare and order fractions less than 1 6. Compare and order fractions greater than 1 7. Add and subtract fractions 8. Add fractions within 1 9. Add 3 or more fractions 10. Add fractions 11. Add mixed numbers 12. Subtract fractions 13. Subtract mixed numbers 14. Subtract – breaking the whole 15. Subtract 2 mixed numbers 16. Multiply unit fractions by an integer 	<ul style="list-style-type: none"> 1. Simplify fractions 2. Fractions on a number line 3. Compare and order (denominator) 4. Compare and order (numerator) 5. Add and subtract fractions (1) 6. Add and subtract fractions (2) 7. Add fractions 8. Subtract fractions 9. Mixed addition and subtraction 10. Multiply fractions by integers 11. Multiply fractions by fractions 12. Divide fractions by integers (1) 13. Divide fractions by integers (2) 14. Four rules with fractions 15. Fractions of an amount 16. Fractions of an amount – find the whole 	<ul style="list-style-type: none"> ➤ 1, ➤ 1, ➤ 2, ➤ 3, ➤ 2, 4 ➤ 3, 4, 5, 6 ➤ 5, 6, 7, 8, 9, 7, 8, 9, 10, 11, 12, 13, 14 ➤ 10, 16, 17 ➤ 11, ➤ 12, 13, ➤ 14, ➤ 15, 18 ➤ 16

<p>17. Multiply mixed numbers by integers 18. Fractions of an amount 19. Using fractions as operators</p>		<p>➤ 19 to be taught as a plenary once fractions of amount and multiplying fractions has been taught</p>
<p>Su Block 3 – Geometry: Position and Direction</p>	<p>Au Block 4 – Geometry: Position and Direction</p>	
<p>1. Position in the first quadrant 2. Reflection 3. Reflection with co-ordinates 4. Translation 5. Translation with co-ordinates</p>	<p>1. The first quadrant 2. Four quadrants 3. Translations 4. Reflections</p>	<p>➤ 1, 1, ➤ 2 ➤ 3, 4, 5 ➤ 4, 2, 3</p>
<p>Spr Block 3 – Number: Decimals and Percentages Su Block 1 – Number: Decimals</p>	<p>Spr Block 1 – Number: Decimals</p>	
<p>1. Decimals up to 2 d.p. 2. Decimals as fractions (1) 3. Decimals as fractions (2) 4. Understand thousandths 5. Thousandths as decimals 6. Rounding decimals 7. Order and compare decimals 8. Adding decimals within 1 9. Subtracting decimals within 1 10. Complements to 1 11. Adding decimals – crossing the whole 12. Adding decimals with the same number of decimal places 13. Subtracting decimals with the same number of decimal places 14. Adding decimals with a different number of decimal places 15. Subtracting decimals with a different number of decimal places 16. Adding and subtracting wholes and decimals 17. Decimal sequences 18. Multiplying decimals by 10, 100, 1000 19. Dividing decimals by 10, 100, 1000</p>	<p>1. Three decimal places 2. Multiply by 10, 100 and 1,000 3. Divide by 10, 100 and 1,000 4. Multiply decimals by integers 5. Divide decimals by integers 6. Division to solve problems 7. Decimals as fractions 8. Fractions to decimals (1) 9. Fractions to decimals (2)</p>	<p>➤ 1, 1, 4 ➤ 17 ➤ 6 ➤ 7 ➤ 8, 9, 10, 11, 12, 13, 14, 15, 16 ➤ 4 ➤ 5, 6 ➤ 7, 2, 3, 5 ➤ 8, 9</p> <p>➤ 2, 3, 18, 19 (Completed as part of the four operations unit)</p>

Spr Block 3 – Number: Decimals and Percentages	Spr Block 2 – Number: Percentages	
<ol style="list-style-type: none"> 1. Understand percentages 2. Percentages as fractions and decimals 3. Equivalent F.D.P. 	<ol style="list-style-type: none"> 1. Fractions to percentages 2. Equivalent FDP 3. Order FDP 4. Percentage of an amount (1) 5. Percentage of an amount (2) 6. Percentages – missing values 	<ul style="list-style-type: none"> ➤ 1 ➤ 1 ➤ 2, 2, 3 ➤ 3 ➤ 4, 5, ➤ 6, <p>Year 5s to be given the opportunity to consolidate previous units and complete problem solving and reasoning to extend their understanding.</p>
	Spr Block 3 – Number: Algebra	
	<p>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 Find pairs of values Enumerate possibilities</p>	<p>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.</p>
Su Block 4 – Measurement: Converting Units	Spr Block 4 – Measurement: Converting Units	
<ol style="list-style-type: none"> 1. Kilograms and kilometres 2. Milligrams and millimetres 3. Metric units 4. Imperial units 5. Converting units of time 6. Timetables 	<ol style="list-style-type: none"> 1. Metric measures 2. Convert metric measures 3. Calculate with metric measures 4. Miles and kilometres 5. Imperial measures 	<ul style="list-style-type: none"> ➤ 1, 3 ➤ 2, 3 1, 2 ➤ 4 ➤ 5, 4 ➤ 5, ➤ 6,
Au Block 5 – Measurement: Perimeter and Area Su Block 5 – Measurement: Volume	Spr Block 5 – Measurement: Perimeter, Area and Volume	
<ol style="list-style-type: none"> 1. Measure perimeter 2. Calculate perimeter 3. Area of rectangles 	<ol style="list-style-type: none"> 1. Shapes – same area 2. Area and perimeter 3. Area of a triangle (1) 	<ul style="list-style-type: none"> ➤ 1, 2 ➤ 2 ➤ 1, 3

<ol style="list-style-type: none"> 4. Area of compound shapes 5. Area of irregular shapes 6. What is volume? 7. Compare volume 8. Estimate volume 9. Estimate capacity 	<ol style="list-style-type: none"> 4. Area of a triangle (2) 5. Area of a triangle (3) 6. Area of parallelogram 7. Volume – counting cubes Volume of a cuboid 	<ul style="list-style-type: none"> ➤ 4, 5 ➤ 3, 4, 5 ➤ 6, ➤ 7, 6, 7, 8, 9
Spr Block 6 – Number: Ratio		
<p>Using ratio language Ratio and fractions Introducing the ratio symbol Calculating ratio Using scale factors Calculating scale factors Ratio and proportion problems</p>		
Su Block 2 – Geometry: Properties of Shapes		
<ol style="list-style-type: none"> 1. Measuring angles in degrees 2. Measuring with a protractor (1) 3. Measuring with a protractor (2) 4. Drawing lines and angles accurately 5. Calculation angles on a straight line 6. Calculating angles around a point 7. Calculating lengths and angles in shapes 8. Regular and irregular polygons 9. Reasoning about 3D Shapes 	<ol style="list-style-type: none"> 1. Measure with a protractor 2. Introduce angles 3. Calculate angles 4. Vertically opposite angles 5. Angles in a triangle 6. Angles in a triangle – special cases 7. Angles in a triangle – missing angles 8. Angles in special quadrilaterals 9. Angles in regular polygons 10. Draw shapes accurately 11. Draw nets of 3D shapes 	<ul style="list-style-type: none"> ➤ 1, 2, 1, 2, 3 ➤ 3 ➤ 5, ➤ 6, ➤ 4 ➤ 5, 6, 7, ➤ 8, ➤ 9, ➤ 10, 4, 7 ➤ 11, 8, 9
Au Block 3 - Statistics		
<ol style="list-style-type: none"> 1. Read and interpret line graphs 2. Draw line graphs 3. Use line graphs to solve problems 4. Read and interpret tables 5. Two-way tables 6. Timetables 	<ol style="list-style-type: none"> 1. Read and interpret line graphs 2. Draw line graphs 3. Use line graphs to solve problems 4. Circles 5. Read and interpret pie charts 6. Pie charts with percentages 	<p>Could also be taught through science</p> <ul style="list-style-type: none"> ➤ 4 (to be taught first to link with geometry) ➤ 1, 1 ➤ 2, 2 ➤ 3, 3 ➤ 4,

7. Draw pie charts
8. The mean

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- 8