

# Mathematics



Long Term Overview and Small Steps

Year 3

15 weeks	Autumn		
	Number Place Value	Number Addition and Subtraction	Number Multiplication and Division
	5 weeks	6 weeks	4 weeks
<b>Autumn</b>	<ol style="list-style-type: none"> <li>1. Represent numbers to 100 in numerals and words</li> <li>2. Partition numbers to 100</li> <li>3. Number line to 100</li> <li>4. Hundreds</li> <li>5. Read and write number to 1000 in numerals and words</li> <li>6. Represent numbers to 1000</li> <li>7. Partition numbers to 1000</li> <li>8. Flexible partitioning numbers to 1000</li> <li>9. Hundreds, tens and ones</li> <li>10. Find 1, 10 and 100 more or less</li> <li>11. Number line to 1000</li> <li>12. Estimate numbers on a number line to 1,000</li> <li>13. Compare numbers to 1000</li> <li>14. Order numbers to 1000</li> <li>15. Count in 50s and 100s</li> <li>16. Tenths (White Rose V2)</li> <li>17. Count in tenths (White Rose V2)</li> <li>18. Tenths as decimals (White Rose V2)</li> </ol>	<ol style="list-style-type: none"> <li>1. Apply number bonds within 10 and derive related facts to 100</li> <li>2. Add 3 single digit numbers</li> <li>3. Add and subtract 1s</li> <li>4. Add and subtract 10s</li> <li>5. Add and subtract 100s</li> <li>6. Spot the pattern (adding multiples of 10)</li> <li>7. Add 1s across a ten</li> <li>8. Add 10s across a hundred</li> <li>9. Subtract 1s across a ten</li> <li>10. Subtract 10s across a hundred</li> <li>11. Make connections</li> <li>12. Complements to 100</li> <li>13. Add two numbers (no exchange)</li> <li>14. Add two numbers (across a ten)</li> <li>15. Add two numbers (across a hundred)</li> <li>16. Subtract two numbers (no exchange)</li> <li>17. Subtract two numbers (across a ten)</li> <li>18. Subtract two numbers (across a hundred)</li> <li>19. Add 2-digit and 3-digit numbers</li> <li>20. Subtract a 2-digit from a 3-digit number</li> <li>21. Complements to 100</li> <li>22. Estimate answers</li> <li>23. Inverse operation</li> <li>24. Making decisions</li> </ol>	<ol style="list-style-type: none"> <li>1. Multiplication - equal groups</li> <li>2. Use arrays</li> <li>3. Multiples of 2</li> <li>4. Multiples of 5 and 10</li> <li>5. Sharing and grouping</li> <li>6. Multiply by 3</li> <li>7. Divide by 3</li> <li>8. The 3 times-table</li> <li>9. Multiply by 4</li> <li>10. Divide by 4</li> <li>11. The 4 times-table</li> <li>12. Multiply by 8</li> <li>13. Divide by 8</li> <li>14. The 8 times-table</li> <li>15. The 2, 4- and 8-times table</li> </ol>

13 weeks	Spring		
	Number Multiplication and Division	Number Fractions	Measurement Length and perimeter
	4 weeks	5 weeks	3 weeks
Spring	<ol style="list-style-type: none"> <li>Multiples of 10</li> <li>Related calculations</li> <li>Reasoning about multiplication</li> <li>Multiply a 2-digit number by a 1-digit number - no exchange</li> <li>Multiply a 2-digit number by a 1-digit number - with exchange</li> <li>Link multiplication and division</li> <li>Divide a 2-digit number by a 1-digit number - no exchange</li> <li>Divide a 2-digit number by a 1-digit number - flexible partitioning</li> <li>Divide a 2-digit number by a 1-digit number - with remainders</li> <li>Scaling</li> <li>How many ways?</li> </ol>	<ol style="list-style-type: none"> <li>Revise tenths (White Rose V2)</li> <li>Understand the denominators of unit fractions</li> <li>Compare and order unit fractions</li> <li>Understand the numerators of non-unit fractions</li> <li>Understand the whole</li> <li>Compare and order non-unit fractions</li> <li>Fractions and scales</li> <li>Fractions on a number line</li> <li>Count in fractions on a number line</li> <li>Equivalent fractions on a number line</li> <li>Equivalent fractions as bar models</li> <li>Add fractions</li> <li>Subtract fractions</li> <li>Partition the whole</li> <li>Unit fraction of a set of objects</li> <li>Non-unit fractions of a set of objects</li> <li>Reasoning with a fraction of amounts</li> </ol>	<ol style="list-style-type: none"> <li>Measure in m and cm</li> <li>Measure in mm</li> <li>Measure in cm and mm</li> <li>Equivalent lengths (m and cm)</li> <li>Equivalent lengths (cm and mm)</li> <li>Compare lengths</li> <li>Add lengths</li> <li>Subtract lengths</li> <li>What is perimeter?</li> <li>Measure perimeter</li> <li>Calculate perimeter</li> </ol>

11 weeks	Summer				
	Measurement Mass and Capacity	Measurement Money	Measurement Time	Geometry Shape	Statistics
	2 weeks	2 weeks	3 weeks	2 weeks	2 weeks
<b>Summer</b>	<ol style="list-style-type: none"> <li>1. Use scales</li> <li>2. Measure mass in grams</li> <li>3. Measure mass in kg &amp; g</li> <li>4. Equivalent masses (kg &amp; g)</li> <li>5. Compare mass</li> <li>6. Add and subtract mass</li> <li>7. Measure capacity and volume in ml</li> <li>8. Measure capacity and volume in l and ml</li> <li>9. Equivalent capacities and volumes (l &amp; ml)</li> <li>10. Compare capacity and volume</li> <li>11. Add and subtract capacity and volume</li> </ol>	<ol style="list-style-type: none"> <li>1. Pounds and pence</li> <li>2. Converting pounds and pence</li> <li>3. Add money</li> <li>4. Subtract money</li> <li>5. Find change</li> </ol>	<ol style="list-style-type: none"> <li>1. Recap telling time (o clock/half hour/quarter to/quarter past)</li> <li>2. Telling time to 5 minutes</li> <li>3. Telling time to the minute</li> <li>4. Reading time on the digital clock</li> <li>5. Use am and pm</li> <li>6. Years, months and days</li> <li>7. Days and hours</li> <li>8. Hours and minutes - use start and end times</li> <li>9. Hours and minutes - use duration</li> <li>10. Minutes and seconds</li> <li>11. Units of time</li> <li>12. Solve problems with time</li> <li>13. Roman numerals to 12</li> </ol>	<ol style="list-style-type: none"> <li>1. Recognise and describe 2-D shapes</li> <li>2. Recognise and describe 3-D shapes</li> <li>3. Turns and angles</li> <li>4. Right angles</li> <li>5. Compare angles</li> <li>6. Measure and draw accurately</li> <li>7. Horizontal and vertical</li> <li>8. Parallel and perpendicular</li> <li>9. Draw polygons</li> <li>10. Make 3-D shapes</li> </ol>	<ol style="list-style-type: none"> <li>1. Interpret pictograms</li> <li>2. Draw pictograms</li> <li>3. Interpret bar charts</li> <li>4. Draw bar charts</li> <li>5. Collect and represent data</li> <li>6. Two-way tables</li> </ol>

White Rose - Suggested number of weeks	
Place Value	3 weeks
Addition and Subtraction	5 weeks
Multiplication and Division	7 weeks
Fractions	5 weeks
Length and Perimeter	3 weeks
Mass and Capacity	3 weeks
Money	2 weeks
Time	3 weeks
Geometry	2 weeks
Statistics	2 weeks