Curriculum Overview – Maths Small Steps – Year 3

Number of Weeks	Curriculum Area.	National Curriculum Objective.	Small step objectives.
These small steps have been taken from the new White Rose overview v3.0 and reformatted into the table below.			
Weeks 1-3	Place Value	• Recognise the place value of each digit in a three-digit number (hundreds, tens, ones). • Identify, represent and estimate numbers using different representations. • Compare and order numbers up to 1000. • Find 10 or 100 more or less than a given number • Solve number problems and practical problems involving these ideas.	1. Represent numbers to 100 2. Partition numbers to 100 3. Number line to 100 4. Hundreds 5. Represent numbers to 1000 6. Partition numbers to 1000 7. Flexible partitioning of numbers to 1000 8. Hundreds, tens and ones 9. Find 1, 10 or 100 more or less 10. Number line to 1000 11. Estimate on a number line to 1000 12. Compares numbers to 1000 13. Order numbers to 1000 14. Count in 50s
Weeks 4 - 8	Addition and Subtraction	• Add and subtract numbers mentally, including: a three-digit number and 1s, a three-digit number and 10s, a three-digit number and 100s. • Add and subtract numbers with up to 3 digits, using formal written methods of columnar addition and subtraction.	1. Apply number bonds within 10 2. Add and subtract 1s 3. Add and subtract 10s 4. Add and subtract 100s 5. Spot the pattern 6. Add 1s across a 10 7. Add 10s across a 100 8. Subtract 1s across a 10 9. Subtract 10s across a 100 10. Make connections 11. Add two numbers (no exchange) 12. Subtract two numbers (no exchange) 13. Add two numbers (across a 10) 14. Add two numbers (across a 100) 15. Subtract two numbers (across a 10) 16. Subtract two numbers (across a 100) 17. Add 2-digit and 3-digit numbers 18. Subtract a 2-digit number from a 3-digit number 19. Complements to 100 20. Estimate answers

			21. Inverse operations 22. Make decisions
Weeks 9 - 15	Multiplication and Division	• Recall and use multiplication and division facts for the 3, 4 and 8 multiplication tables • Write and calculate mathematical statements for multiplication and division using the multiplication tables they know, including for two-digit numbers times one-digit numbers, using mental and progressing to formal written methods • Solve problems, including missing number problems, involving multiplication and division, including positive integer scaling problems and correspondence problems in which n objects are connected to m objects.	1. Multiplication – equal groups 2. Use arrays 3. Multiples of 2 4. Multiples of 5 and 10 5. Sharing and grouping 6. Multiply by 3 7. Divide by 3 8. The 3 times-tables 9. Multiply by 4 10. Divide by 4 11. The 4 times-table 12. Multiply by 8 13. Divide by 8 14. The 8 times-table 15. The 2, 4 and 8 times-tables 16. Multiples of 10 17. Related calculations 18. Reasoning about multiplication 19. Multiply a 2-digit number by a 1-digit number – no exchange 20. Multiply a 2-digit number by a 1-digit number – with exchange 21. Link multiplication and division 22. Divide a 2-digit number by a 1-digit number – no exchange 23. Divide a 2-digit number by a 1-digit number – flexible partitioning 24. Divide a 2-digit number by a 1-digit number – with remainders 25. Scaling 26. How many ways
Weeks 16 - 18	Length and Perimeter	• Measure, compare, add and subtract lengths (m/cm/mm) • Measure the perimeter of simple 2-D shapes	1. Measure in metres and centimetres 2. Measure in millimetres 3. Measure in centimetres and millimetres 4. Metres, centimetres and millimetres 5. Equivalent lengths (metres and centimetres)

			6. Equivalent lengths (centimetres ad millimetres) 7. Compare lengths 8. Add lengths 9. Subtract lengths 10. What is perimeter? 11. Measure perimeter 12. Calculate perimeter
Weeks 19 - 21	Fractions (part 1)	• Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • Recognise and show, using diagrams, equivalent fractions with small denominators • Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] • Compare and order unit fractions, and fractions with the same denominators • Solve problems that involve all of the above	1. Understand the denominators of unit fractions 2. Compare and order unit fractions 3. Understand the numerators of non-unit fractions 4. Understand the whole 5. Compare and order non-unit fractions 6. Fractions and scales 7. Fractions on a number line 8. Count in fractions on a number line 9. Equivalent fractions on a number line 10. Equivalent fractions as bar models
Weeks 22 - 24	Mass and Capacity	• Measure, compare, add and subtract: mass (kg/g); volume/capacity (l/ml)	1. Use scales 2. Measure mass in grams 3. Measure mass in kilograms and grams 4. Equivalent masses (kilograms and grams) 5. Compare mass 6. Add and subtract mass 7. Measure capacity and volume in millilitres 8. Measure capacity and volume in litres and millilitres 9. Equivalent capacities and volumes (litres and millilitres) 10. Compare capacity and volume 11. Add and subtract capacity and volume

Weeks 25 - 26	Fractions (Part 2)	• Count up and down in tenths; recognise that tenths arise from dividing an object into 10 equal parts and in dividing one-digit numbers or quantities by 10 • Recognise, find and write fractions of a discrete set of objects: unit fractions and non-unit fractions with small denominators • Recognise and use fractions as numbers: unit fractions and non-unit fractions with small denominators • Recognise and show, using diagrams, equivalent fractions with small denominators • Add and subtract fractions with the same denominator within one whole [for example, $\frac{5}{7} + \frac{1}{7} = \frac{6}{7}$] • Compare and order unit fractions, and fractions with the same denominators • Solve problems that involve all of the above	1. Add fractions 2. Subtract fractions 3. Partition the whole 4. Unit fractions of a set of objects 5. Non-unit fractions of a set of objects 6. Reasoning with fractions of amount
Weeks 27 - 28	Money	• Add and subtract amounts of money to give change, using both £ and p in practical contexts	1. Pounds and pence 2. Convert pounds and pence 3. Add money 4. Subtract money 5. Find change
Weeks 29 - 31	Time	• Tell and write the time from an analogue clock, including using Roman numerals from I to XII, and 12-hour and 24-hour clocks • Estimate and read time with increasing accuracy to the nearest minute; record and compare time in terms of seconds, minutes and hours; use vocabulary such as o'clock, am/pm, morning, afternoon, noon and midnight • Know the number of seconds in a minute and the number of days in each month, year and leap year • Compare durations of events [for example, to calculate the time taken by particular events or tasks]	1. Roman numerals to 12 2. Tell the time to 5 minutes 3. Tell the time to the minute 4. Read time on a digital clock 5. Use am and pm 6. Years, months and days 7. Days and hours 8. Hours and minutes – use start and end times 9. Hours and minutes – use durations 10. Minutes and seconds 11. Units of time 12. Solve problems with time
Weeks 32 - 33	Shape		1. Turns and angles 2. Right angles

		• Draw 2-D shapes and make 3-D shapes using modelling materials; recognise 3-D shapes in different orientations and describe them • Recognise angles as a property of shape or a description of a turn • Identify right angles, recognise that 2 right angles make a half-turn, 3 make three-quarters of a turn and 4 a complete turn; identify whether angles are greater than or less than a right angle • Identify horizontal and vertical lines and pairs of perpendicular and parallel lines	3. Compare angles 4. Measure and draw accurately 5. Horizontal and vertical 6. Parallel and perpendicular 7. Recognise and describe 2-D shapes 8. Draw polygons 9. Recognise and describe 3-D shapes 10. Make 3-D shapes
Weeks 34-35	Statistics	• Interpret and present data using bar chart, pictograms and tables • Solve one-step and two-step questions using information presented in scaled bar charts and pictograms and tables	1. Interpret pictograms 2. Draw pictograms 3. Interpret bar charts 4. Draw bar charts 5. Collect and represent data 6. Two-way tables
Week 36	Consolidation of skills		