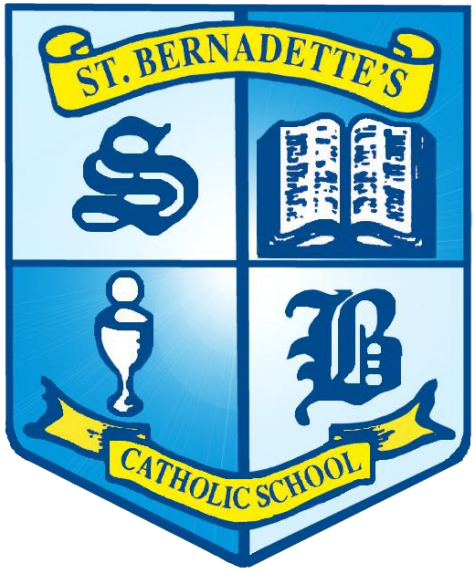
Mathematics



Long Term Overview and Small Steps

Year 4

Created May 2024 – adapted from White Rose Schemes of work

15 weeks	Autumn	
	Number Place Value	Number Addition and Subtraction
	9 weeks	6 weeks
Autumn	1. Represent numbers to 1,000 (numerals & words) 2. Partition numbers to 1,000 3. Number line to 1,000 4. Thousands 5. Represent numbers to 10,000 (numerals & words) 6. Partition numbers to 10,000 7. Flexible partitioning of numbers to 10,000 8. Find 1, 10, 100, 1,000 more or less 9. Number line to 10,000 10. Round to the nearest 10 11. Round to the nearest 100 12. Round to the nearest 1000 13. Round to the nearest 10, 100 or 1000 14. Tenths as Fractions (WR Decimals A Spring) 15. Tenths as decimals (WR Decimals A Spring) 16. Tenths on a place value chart (WR Decimals A Spring) 17. Tenths on a number line (WR Decimals A Spring) 18. Make a whole with tenths (WR Decimals A Spring) 19. Make a whole with hundredths (WR Decimals B Spring) 20. Hundredths as fractions (WR Decimals A Spring) 21. Hundredths as decimals (WR Decimals A Spring) 22. Hundredths on a place value chart (WR Decimals A Spring) 23. Multiply by 10 (WR Multiplication and Division B) 24. Multiply by 100 (WR Multiplication and Division B) 25. Divide by 10 (WR Multiplication and Division B) 26. Divide by 100 (WR Multiplication and Division B) 27. Divide a 1-digit number by 10 (WR Decimals A Spring) 28. Divide a 2-digit number by 10 (WR Decimals A Spring) 29. Divide a 1-digit number by 100 (WR Decimals A Spring) 30. Divide a 2-digit number by 100 (WR Decimals A Spring) 31. Write money using decimals (WR Money) 32. Convert between pounds and pence (WR Money) 33. Compare amounts of money (WR Money) 34. Measure in km and m (WR Length and perimeter) 35. Equivalent lengths of km and m (WR Length and perimeter) 36. Negative numbers (WR V2) 37. Roman numerals 38. Count in multiples of 6, 7, 9, 25 and 1000 (WR V2)	1. Add and subtract to 1s, 10s, 100s and 1000s 2. Add up to 2 4-digit numbers (no exchange) 3. Add up to 2 4-digit numbers (with one exchange) 4. Add up to 2 4-digit numbers (with more than one exchange) 5. Subtract 2 4-digit numbers (no exchange) 6. Subtract 2 4-digit numbers (with one exchange) 7. Subtract 2 4-digit numbers (with more than one exchange) 8. Efficient subtraction 9. Estimating answers 10. Estimate with money (WR Money) 11. Checking strategies 12. Calculate with money (WR Money) 13. Solve problems with money (WR Money)

13 weeks	Spring	
	Number Multiplication and Division	Number Fractions and Decimals
	5 weeks	7 weeks
Spring	1. Multiples of 3 2. Multiply and divide by 6 3. 6 times table and division facts 4. Multiply and divide by 9 5. 9 times table and division facts 6. The 3, 6- and 9-times tables 7. Multiply and divide by 7 8. 7 times table and division facts 9. 11 times table and division facts 10. 12 times table and division facts 11. Multiply by 1 and 0 12. Divide a number by 1 and itself 13. Multiply three numbers 14. Factors 15. Use factor pairs 16. Related facts for multiplication and division 17. Revise mental methods for multiplication and division 18. Informal written methods for multiplication 19. Multiply a 2-digit number by a 1-digit number 20. Multiply a 3-digit number by a 1-digit number 21. Divide a 2-digit number by a 1-digit number 22. Divide a 3-digit number by a 1-digit number 23. Correspondence problems 24. Efficient multiplication	<u>Fractions</u> 1. Understand the whole 2. Count beyond 1 3. Partition a mixed number 4. Number lines with mixed numbers 5. Compare and order mixed numbers 6. Understand improper fractions 7. Convert mixed numbers to improper fractions 8. Convert improper fractions to mixed numbers 9. Equivalent fractions on a number line 10. Equivalent fraction families 11. Add two or more fractions 12. Add fractions and mixed numbers 13. Subtract two fractions 14. Subtract from whole amounts 15. Subtract from mixed numbers 16. (Recap) Fractions of a quantity (WR V2) 17. Calculate fractions of a quantity (WR V2) 18. Problem solving – calculate quantities <u>Decimals</u> 1. Partition decimals (WR Decimals A Spring) 2. Flexibly partition decimals (WR Decimals A Spring) 3. Halves and quarters as decimals (WR Decimals A Spring) 4. Compare decimals (WR Decimals B Summer) 5. Order decimals (WR Decimals B Summer) 6. Round to the nearest whole number (WR Decimals B Summer)

11 weeks	Summer					
	Measurement Length and perimeter	Measurement Area	Measurement Time	Geometry Shape	Geometry Position and Direction	Statistics
	2 weeks	1 weeks	2 weeks	2 weeks	2 weeks	1 weeks
Summer	1. Revise km and m (Added to Place Value) 2. Perimeter on a grid 3. Perimeter of a rectangle 4. Perimeter of rectilinear shapes 5. Find missing lengths in rectilinear shapes 6. Find missing lengths in rectilinear shapes 7. Calculate the perimeter of rectilinear shapes 8. Perimeter of regular polygons 9. Perimeter of polygons	1. What is area? 2. Count squares 3. Make shapes 4. Compare areas	1. Years, months, weeks and days 2. Hours, minutes and seconds 3. Convert between analogue and digital times 4. Convert to the 24-hour clock 5. Convert from the 24-hour clock	1. Understand angles as turns 2. Identify angles 3. Compare and order angles 4. Triangles 5. Quadrilaterals 6. Polygons 7. Lines of symmetry 8. Complete a symmetric figure	1. Describe position using coordinates 2. Plot coordinates 3. Draw 2-D shapes on a grid 4. Translate on a grid 5. Describe translation on a grid	1. Interpret charts 2. Comparison, sum and difference 3. Interpret line graphs 4. Draw line graphs

White Rose - Suggested number of weeks

Place Value *Some small steps from Decimals, Money, Multiplication and Division and Length added*	4 weeks
Addition and Subtraction	3 weeks
Multiplication and Division *Some small steps added to Place Value*	6 weeks
Fractions	4 weeks
Decimals *Some small steps added to Place Value*	5 weeks
Area	1 week
Length and Perimeter *Length added to Place Value*	2 weeks
Money *Added to Place Value and Addition and Subtraction*	2 weeks
Time	2 weeks
Shape	2 weeks
Position and Direction	2 weeks
Statistics	1 weeks