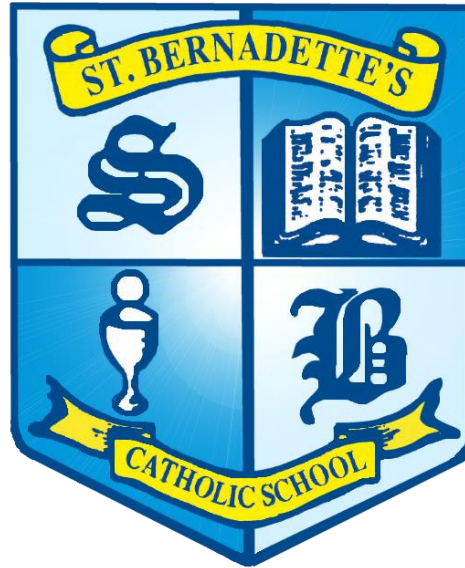


Mathematics



Long Term Overview and Small Steps

Year 5

15 weeks

Autumn

15 weeks	Autumn			
	Number Place Value	Number Addition and Subtraction	Number Multiplication and Division	
	6 weeks	4 weeks	4 weeks	
Autumn	<ol style="list-style-type: none"> Numbers to 10,000 Numbers to 100,000 Numbers to 1,00,000 Read and write number to 1,000,000 (numerals & words) Numbers to 1, 000,000 Partition numbers to 1,000,000 Number line to 1, 000,000 Powers of 10 Decimals up to 2 decimal places (DP Spring) Equivalent fractions and decimals (tenths) (DP Spring) Equivalent fractions and decimals (hundredths) (DP Spring) Thousandths as decimals (DP Spring) Thousandths as fractions (DP Spring) Thousandths on a place value chart (DP Spring) Compare and order numbers to 100,000 Compare and order numbers to 1,000,000 Order and compare decimals (same number of decimal places) (DP Spring) Order and compare any decimals with up to 3 decimal places (DP Spring) 1/10/100/1000/10,000/100,000 more or less Round to the nearest 10, 100 or 1000 Round within 100,000 Round within 1,000,000 Round to the nearest whole number (DP Spring) Round to 1 decimal place (DP Spring) 	<ol style="list-style-type: none"> Multiply by 10, 100 and 1,000 (WR Multiplication and division) Divide by 10, 100 and 1,000 (WR Multiplication and division) Multiply decimals by 10, 100 and 1,000 (Decimals Summer) Divide decimals by 10, 100 and 1,000 (Decimals Summer) Multiply and divide decimals - missing values (Decimals Summer) Kilograms and kilometres (Converting units) Millimetres and millilitres (Converting units) Understand negative numbers Count through zero in 1s Count through zero in multiples Compare and order negative numbers Find the difference Roman numerals to 1,000 	<ol style="list-style-type: none"> Teach mental methods for addition and subtraction Complements to 1 (Decimals Summer) Use known facts to add and subtract decimals within 1 (Decimals Summer) Add and subtract decimals across 1 (Decimals Summer) Add whole numbers with more than 4 digits Add decimals with the same number of decimal places (Decimals Summer) Add decimals with a different number of decimal places (Decimals Summer) Subtract whole numbers with more than 4 digits Subtract decimals with the same number of decimal places (Decimals Summer) Subtract decimals with a different number of decimal places (Decimals Summer) Efficient strategies for adding and subtracting decimals (Decimals Summer) Round to check answers Inverse operation (addition and subtraction) Multi-step addition and subtraction problems Compare calculations Find missing numbers 	<ol style="list-style-type: none"> Multiples Common multiples Factors Common Factors Prime numbers Square numbers Cube numbers Multiples of 10, 100 and 1,000 Multiply up to a 4-digit number by a 1-digit number Multiply a 2-digit number by a 2-digit number (area model) Multiply a 2-digit number by a 2-digit number Multiply a 3-digit number by a 2-digit number Multiply a 4-digit number by a 2-digit number Solve problems with multiplication

13 weeks

Spring

Number
Multiplication and Division

Number
Fractions, Decimals and Percentages

Measurement
Perimeter and Area

2 weeks

9 weeks

2 weeks

Spring

1. Divide a 4-digit number by a 1-digit number
2. Divide with remainders
3. Efficient division
4. Solve problems with multiplication and division

1. Find fractions equivalent to a unit fraction (Fractions A)
2. Find fractions equivalent to a non-unit fraction (Fractions A)
3. Recognise equivalent fractions (Fractions A)
4. Convert improper fractions to mixed numbers (Fractions A)
5. Convert mixed numbers to improper fractions (Fractions A)
6. Compare fractions less than 1 (Fractions A)
7. Order fractions less than 1 (Fractions A)
8. Compare and order fractions greater than 1 (Fractions A)
9. Calculate a fraction of a quantity (Fractions B)
10. Fraction of an amount (Fractions B)
11. Find the whole (Fractions B)
12. Add and subtract fractions with the same denominator (Fractions A)
13. Add fractions within 1 (Fractions A)
14. Add fractions with total greater than 1 (Fractions A)
15. Add to a mixed number (Fractions A)
16. Add two mixed numbers (Fractions A)
17. Subtract fractions (Fractions A)
18. Subtract from a mixed number (Fractions A)
19. Subtract from a mixed number breaking the whole (Fractions A)
20. Subtract two mixed numbers (Fractions A)
21. Multiply a unit fraction by an integer (Fractions B)
22. Multiply a non-unit fraction by an integer (Fractions B)
23. Multiply a mixed number by an integer (Fractions B)
24. Use fractions as operators (Fractions B)
25. Equivalent fractions and decimals (WR DP)
26. Understand percentages (WR DP)
27. Percentages as fractions (WR DP)
28. Percentages as decimals (WR DP)
29. Equivalent fractions, decimals and percentages (WR DP)
30. Decimal sequences (Decimals Summer)

1. Perimeter of rectangles
2. Perimeter of rectilinear shapes
3. Perimeter of polygons
4. Area of rectangles
5. Area of compound shapes
6. Estimate area

Summer

11 weeks	Summer				
	Measurement Volume	Measurement Converting Units	Geometry Shape	Geometry Position and Direction	Statistics
	1 weeks	2 weeks	3 weeks	2 weeks	2 weeks
Summer	<ol style="list-style-type: none"> 1. Cubic centimetres 2. Compare volume 3. Estimate volume 4. Estimate capacity 	<ol style="list-style-type: none"> 1. Tell the time using the digital, analogue and 24-hour clock 2. Convert units of time 3. Calculate with timetables 4. Convert units of length 5. Convert between metric and imperial units 	<ol style="list-style-type: none"> 1. Understand and use degrees 2. Classify angles 3. Estimate angles 4. Measure up to 180 5. Draw lines and angles accurately 6. Calculate angles around a point 7. Calculate angles on a straight line 8. Lengths and angles in shapes 9. Regular and irregular polygons 10. 3-D shapes 	<ol style="list-style-type: none"> 1. Read and plot coordinates 2. Problem solving with coordinates 3. Translation 4. Translation with coordinates 5. Lines of symmetry 6. Reflection in horizontal and vertical lines 	<ol style="list-style-type: none"> 1. Draw line graphs 2. Read and interpret line graphs 3. Read and interpret tables 4. Two-way tables 5. Read and interpret timetables

White Rose - Suggested number of weeks	
Place Value *Small steps from Decimals and Negative Numbers added*	3 weeks
Addition and Subtraction	2 weeks
Multiplication and Division	6 weeks
Fractions	6 weeks
Decimals and Percentages	3 weeks
Decimals *Added to Place Value*	3 weeks
Perimeter and Area	2 weeks
Statistics	2 weeks
Shape	3 weeks
Position and Direction	2 weeks
Negative Numbers *Added to Place Value*	1 weeks
Converting Units	2 weeks
Volume	1 weeks