Year 6 Maths Overview

St George's Beneficial C of E Primary School

Week →	1	2	3	4	5	6	7	8	9	10	11	12	13	14
Autumn	Place Value		Decimals (Steps 1-3 & 5-6)	Converting Units	Addition, Subtraction (including Decimals: Y5 Steps 4-8 & Y6 Step 4), Multiplication & Division (including Decimals: Steps 7-9)					Shape		Area, Perimeter & Volume		Position & Direction
Spring	Fractions (A & B)				Fractions, Decimals & Percentages		Statistics (taught through SATs prep)		Algebra (taught through SATs prep)		Ratio (taught through SATs prep)			
Summer	SATs Preparation				SATs	Themed Projects, Problem Solving, Reasoning, Puzzles & Games								

Unit	Small Steps
Place Value	Year 5 – Step 2: Numbers to 10,000 Year 5 – Step 3: Numbers to 100,000 **1. Numbers to 1,000,000** **2. Numbers to 10,000,000** **3. Read and write numbers to 10,000,000** **4. Powers of 10** **5. Number line to 10,000,000** **6. Compare and order any integers** **7. Round any integer** 8. Negative numbers

Decimals	1. Place value within 1 2. Place value – integers and decimals Year 5 (Decimals & Percentages) – Step 6: Thousandths as decimals Year 5 (Decimals & Percentages) – Step 7: Thousandths on a place value chart 3. Round decimals Year 5 – Step 4: Add decimals with the same number of decimal places Year 5 – Step 5: Subtract decimals with the same number of decimals places Year 5 – Step 6: Add decimals with different numbers of decimal places Year 5 – Step 7: Subtract decimals with different numbers of decimals places Year 5 – Step 8: Efficient strategies for adding and subtracting decimals 4. Add and subtract decimals **5. Multiply by 10, 100 and 1000** **6. Divide by 10, 100 and 1000** 7. Multiply decimals by integers 8. Divide decimals by integers 9. Multiply and divide decimals in context
Converting units	1. Metric measures **2. Convert metric measures** 3. Calculate with metric measures 4. Miles and kilometres 5. Imperial measures

Addition, Subtraction, Multiplication & Division	1. Add and subtract integers 2. Common factors 3. Common multiples 4. Rules of divisibility 5. Primes to 100 6. Square and cube numbers 7. Multiply up to a 4-digit number by a 2-digit number **8. Solve problems with multiplication** 9. Short division **10. Division using factors** 11. Introduction to long division 12. Long division with remainders **13. Solve problems with division** **14. Solve multi-step problems** 15. Order of operations 16. Mental calculations and estimation **17. Reason from known facts**

Shape	1. Measure and classify angles Year 5 – Step 6: Calculate angles around a point Year 5 – Step 7: Calculate angles on a straight line 2. Calculate angles 3. Vertically opposite angles **4. Angles in a triangle** **5. Angles in a triangle – special cases** **6. Angles in a triangle – missing angles** **7. Angles in a quadrilateral** **8. Angles in polygons** 9. Circles **10. Draw shapes accurately** 11. Nets of 3-D shapes
Area, Perimeter & Volume	**1. Shapes – same area** **2. Area and perimeter** **3. Area of a triangle – counting squares** **4. Area of a right-angled triangle** **5. Area of any triangle** **6. Area of a parallelogram** 7. Volume – counting cubes 8. Volume of a cuboid

Fractions (A & B)	**(A)** **1. Equivalent fractions and simplifying** **2. Equivalent fractions on a number line** **3. Compare and order (denominator)** **4. Compare and order (numerator)** 5. Add and subtract simple fractions 6. Add and subtract any two fractions 7. Add mixed numbers 8. Subtract mixed numbers 9. Multi-step problems **(B)** Year 5 – Step 1: Multiply a unit fraction by an integer Year 5 – Step 2: Multiply a non-unit fraction by an integer Year 5 – Step 3: Multiply a mixed number by an integer Year 5 – Step 7: Use fractions as operators 1. Multiply fractions by integers 2. Multiply fractions by fractions 3. Divide a fraction by an integer 4. Divide any fraction by an integer 5. Mixed questions with fractions 6. Fraction of an amount 7. Fraction of an amount – find the whole

Fractions, Decimals & Percentages	Year 5 (Decimals & Percentages) – Step 12: Understand percentages Year 5 (Decimals & Percentages) – Step 13: Percentages as fractions Year 5 (Decimals & Percentages) – Step 14: Percentages as decimals Year 5 (Decimals & Percentages) – Step 15: Equivalent fractions, decimals and percentages 1. Decimal and fraction equivalents 2. Fractions as division 3. Understand percentages 4. Fractions to percentages 5. Equivalent fractions, decimals and percentages 6. Order fractions, decimals and percentages 7. Percentage of an amount – one step 8. Percentage of an amount – multi-step 9. Percentages – missing values
Position & Direction	1. The first quadrant 2. Read and plot points in four quadrants 3. Solve problems with coordinates 4. Translations 5. Reflections

Statistics	1. Line graphs 2. Dual bar charts 3. Read and interpret pie charts 4. Pie charts with percentages 5. Draw pie charts 6. The mean
Algebra	1. 1-step function machines 2. 2-step function machines 3. Form expressions 4. Substitution 5. Formulae 6. Form equations 7. Solve 1-step equations 8. Solve 2-step equations **9. Find pairs of values** **10. Solve problems with two unknowns**

Ratio	**1. Add or multiply?** 2. Use ratio language 3. Introduction to the ratio symbol 4. Ratio and fractions **5. Scale drawing** **6. Use scale factors** **7. Similar shapes** **8. Ratio problems** **9. Proportion problems** **10. Recipes**