



St Joseph's RC Middle School

Mathematics Subject Overview Year 6

	Autumn		Spring		Summer	
	1	2	1	2	1	2
Topic	Numbers and place value Addition and subtraction Multiplication and division Fractions, decimals, ratio and percentages Measures Algebra	Number and place value Multiplication and division Fractions decimals ratio and percentages Measures Geometry	Numbers and place value Addition and subtraction Multiplication and division Fractions decimals ratio and percentages Measures Geometry	Multiplication and division Geometry Statistics Algebra	Numbers and place value Addition and subtraction Multiplication and division Measures Algebra	Numbers and place value Fractions decimals ratio and proportion Geometry
Areas of curriculum covered	Read, write, order and compare numbers at least 1,000,000. Use knowledge of the order of operations to carry out calculations. Multiply multi-digit numbers up to 4 digit using long multiplication Identify the value of each digit in numbers up to 3 decimal places Multiply and divide numbers by 10,100 and 1,000. Solve problems involving the calculation and conversation of units of measure Use, read, write and convert between metric measures. Begin to convert between miles and kilometres. Find pairs of numbes that satisfy an equation with two unknowns	Use negative numbers in context. Use knowledge of the order of operations to carry out calculations Divide numbers up to 4 digits using short division Solve problems involving the calculation of percentages Divide proper fractions by whole numbers Recognise that shapes with the same areas can have different perimeters and vice versa Use formulae for area and volume of shapes Recognise, describe and build simple 3D shaopes	Read write order and compare numbers up to 1,00,000 Round any whole number to a required degree of accuracy Solve problems involving addition, subtraction, multiplication and division Perform mental calculations Multiply and divide multi-digit numbers up to 4 digits by a 1 or 2 digit whole number of using formal methods Identify common factors, common multiples and prime numbers Associate a fraction with division and calculate decimal fraction equivalents Multiply 1 and 2 digit numbers with up to 2 decimal places by whole numbers Solve problems involving the calculation and conversation of units of measure Convert between miles and kilometres Draw 2D shapes using given dimensions and angles Illustrate and name parts of a circle Compare of classify geometric shapes based on their properties	Multiply and divide multi-digit numbers up to 3 using formal methods. Use estimation to check answers to calculations Solve problems involving addition subtraction multiplication and division Solve problems involving knowledge of factors and multiples Recognise angles around a point on a straight line or are vertically opposite and calculate missing angles Describe positions of full co-ordinate grids. Draw and translate simple shapes on the coordinate plane, and reflect them in the axes. Interpret and construct pie charts and use these to solve problems Interpret and construct line graphs and use these to solve problems Calculate and interpret the mean as an average Use simple formulae Generate and describe linear number sequences.	Use negative numbers in context. Read write order and compare numbers up to 1,000,000 and determine the value of each digit Solve addition and subtraction multi-step problems in context Use knowledge of the order of operations to carry out calculations Perform mental calculations Divide numbers up to 4-digits by a 2-digit numbers using short division Add and subtract fractions, with different denominators and mixed numbers Multiply pairs of proper fractions Recognise that shapes with the same area can have different perimeters and vice versa Express missing numbers algebraically	Revise equivalence simplifying fractions and changing improper fractions into mixed numbers and vice versa. Revise adding and subtracting fractions with different denominators. Revise multiplying pairs of fractions by whole numbers. Drawing 2D shapes using ruler, protractor and compasses Parts of a circle and angles in polygons. Use a protractor to measure and draw angles in degrees Understand perimeter area and volume Use mathematical reasoning to investigate and solve problems and to estimate and predict;