Holy Family Catholic Primary School, Cronton
Year 6 Long Term Plan and Termly Overview

PLAY PRAY LEARN TOGETHER

	Week 1	Week 2	Week 3	Week 4	Week 5	Week 6	Week 7	Week 8	Week 9	Week 10	Week 11	Week 12
Autumn	Number: Place Value		Number: Addition, Subtraction, Multiplication and Division				Number: Fractions					Geometry: Position and Direction
Spring	Number: Decimals		Number: Percentages		Number: Algebra		Measurement: Converting Units	Measurement: Perimeter, Area and Volume		Number: Ratio		Statistics
Summer	Geometry: Properties of Shape			Consolidation or SATs preparation		Consolidation, investigations and preparations for KS3						

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Year 6 – Autumn Term			
Number: Place Value	**Number: Addition, Subtraction, Multiplication and Division**	**Number: Fractions**	**Geometry: Position and Direction**
Read, write, order and compare numbers up to 10 000 000 and determine the value of each digit Round any whole number to a required degree of accuracy Use negative numbers in context, and calculate intervals across zero Solve number and practical problems that involve all of the above.	Solve addition and subtraction multi-step problems in contexts, deciding which operations and methods to use and why Multiply multi-digit numbers up to 4 digits by a two-digit whole number using the formal written method of long multiplication Divide numbers up to 4 digits by a two-digit whole number using the formal written method of long division, and interpret remainders as whole number remainders, fractions, or by rounding, as appropriate for the context Divide numbers up to 4 digits by a two-digit number using the formal written method of short division where appropriate, interpreting remainders according to the context Perform mental calculations, including with mixed operations and large numbers Identify common factors, common multiples and prime numbers Use their knowledge of the order of operations to carry out calculations involving the four operations Solve problems involving addition, subtraction, multiplication and division Use estimation to check answers to calculations and determine, in the context of a problem, an appropriate degree of accuracy	Use common factors to simplify fractions; use common multiples to express fractions in the same denomination Compare and order fractions, including fractions > 1 *Generate and describe linear number sequences (with fractions)* Add and subtract fractions with different denominators and mixed numbers, using the concept of equivalent fractions Multiply simple pairs of proper fractions, writing the answer in its simplest form [for example, ¼ × ½ = 1/8] Divide proper fractions by whole numbers [for example, 1/3 ÷ 2 = 1/6] Associate a fraction with division and calculate decimal fraction equivalents [for example, 0.375] for a simple fraction [for example, 1/8] Recall and use equivalences between simple fractions, decimals and percentages, including in different contexts.	Describe positions on the full coordinate grid (all four quadrants) Draw and translate simple shapes on the coordinate plane, and reflect them in the axes

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Year 6 – Spring Term						
Number: Decimals	**Number: Percentages**	**Number: Algebra**	**Measurement: Converting Units**	**Measurement: Perimeter, Area andVolume**	**Number: Ratio and Proportion**	**Statistics**
Identify the value of each digit in numbers given to three decimal places and multiply anddivide numbers by 10, 100 and 1000 giving answers up to three decimal places Multiply one-digit numbers with up to twodecimal places by whole numbers Use written division methods in cases where the answer has up to two decimal places Solve problems which require answers to be rounded to specified degrees of accuracy	Solve problems involving the calculationof percentages [for example, of measures and such as 15% of 360] and the use of percentages for comparison Recall and use equivalences between simple fractions, decimals and percentages including in different contexts	Use simple formulae Generate and describelinear number sequences Express missing number problems algebraically Find pairs of numbers that satisfy an equationwith two unknowns Enumerate possibilitiesof combinations of two variables	Solve problems involving the calculationand conversion of units of measure, using decimal notation up to three decimal places where appropriate Use, read, write and convert between standard units, converting measurements of length, mass, volume and time from a smallerunit of measure to a larger unit, and vice versa, using decimal notation to up to three decimal places Convert between miles and kilometres	Recognise that shapeswith the same areas can have different perimeters and vice versa Recognise when it is possible to use formulae for area and volume of shapes Calculate the area of parallelograms and triangles Calculate, estimate andcompare volume of cubes and cuboids using standard units, including cubic centimetres (cm3) and cubic metres (m3), andextending to other units[for example, mm3 and km3].	Solve problems involving the relative sizes of two quantities where missing values can be found by using integer multiplication and division facts Solve problems involving similar shapeswhere the scale factor is known or can be found Solve problems involving unequal sharing and grouping using knowledge of fractions and multiples.	Illustrate and name parts of circles, including radius, diameterand circumference and know thatthe diameter is twice the radius Interpret and construct pie charts and line graphs and use these tosolve problems Calculate and interpret the meanas an average.

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Year 6 – Summer Term		
Geometry: Properties of Shape	**Problem Solving**	**Investigations**
Draw 2-D shapes using given dimensions and angles Compare and classify geometric shapes based on their properties and sizes and find unknown angles in any triangles, quadrilaterals, and regular polygons Recognise angles where they meet at a point, are on a straight line, or are vertically opposite, and find missing angles. *Recognise, describe and build simple 3-D shapes, including making nets*	Apply knowledge to a range ofproblems	A range of investigations using arange of knowledge