



XII Apostles RCPS – Maths Outcomes Document

Year Group	Topic	Outcomes	Key Vocabulary
Reception	Maths curriculum delivered through the Mastery in Number programme and supplemented by units in shape, space and measure through White Rose	Number <ul style="list-style-type: none"> Have a deep understanding of number to 10, including the composition of each number; Subitise (recognise quantities without counting) up to 5; Automatically recall (without reference to rhymes, counting or other aids) number bonds up to 5 (including subtraction facts) and some number bonds to 10, including double facts. Numerical Patterns <ul style="list-style-type: none"> Verbally count beyond 20, recognising the pattern of the counting system; Compare quantities up to 10 in different contexts, recognising when one quantity is greater than, less than or the same as the other quantity; Explore and represent patterns within numbers up to 10, including evens and odds, double facts and how quantities can be distributed equally. 	Count, how many altogether, add, pattern, more than, fewer than, full, empty, first, next, heavier, longer
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Year 1	Number: Place Value (within 10)	<ul style="list-style-type: none"> Count to and across 100 from any number Count, read and write numbers to 100 in numerals Read and write mathematical symbols: +, - and = Identify "one more" and "one less" Use number bonds and subtraction facts within 20 Add and subtract 1-digit and 2-digit numbers to 20, including zero 	equal to, more than, less than (fewer), most, least (Numbers 0-10)
	Number: Addition and Subtraction (within 10)		add (+), subtract(-) and equals (=) signs
	Geometry: Shape		2-D shape, rectangles squares,



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		<ul style="list-style-type: none"> Recognise, find and name a half Recognise, find and name a quarter Measure, begin to record and use words related to length long, short, small, tall Measure, begin to record and use words related to mass heavy light Measure, begin to record and use words related to volume Measure, begin to record and use words related to time minute, second, hour, week, month, year Recognise and use language relating to dates days of the week, months of the year Tell the time to the half-hour, including drawing clocks Recognise and know the value of all coins and notes Use language to sequence events in chronological order first, second, third, fourth, last Recognise and name common 2-D shapes circle, square, triangle, rectangle Recognise and name common 3-D shapes cube, cuboid, cylinder, pyramid, sphere Know and use the words add, subtract, equals 	circles and triangles 3-D shapes
	Number: Place Value (within 20)		equal to, more than, less than (fewer), most, least (Numbers 11-20)
	Number: Addition and Subtraction (within 20)		addition (+), subtraction (–) and equals (=) signs
	Number: Place Value (within 50)		equal to, more than, less than (fewer), most, least (Numerals to 50)
	Measurement: Length and Height		Length, height, longer, shorter, taller, measure
	Measurement: Mass and Volume		Heavier, lighter, mass, weight, measure
	Number: Multiplication and Division		Pairs, groups, array, altogether, equal groups, sharing
	Number: Fractions		Whole, half, equal, halves, quarter
	Geometry: Position and Direction		left and right, top, middle and bottom <u>Further vocabulary:</u> on top of, in front of, above, between, around, near, close and far, up and down.
	Number: Place Value (within 100)		Part, whole, greater than, less than
	Measurement: Money		Pence, pounds, coins, notes, money
	Measurement: Time		Day, week, year, month, hour, minute, second
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Year 2	Number: Place Value	<ul style="list-style-type: none"> Read scales in divisions of ones, twos, fives and tens Partition any 2-digit number into different combinations of tens and ones. Explain their thinking verbally, in pictures or using apparatus Use words tens, ones, partition Add and subtract any 2-digit numbers using efficient strategy. Explain their thinking verbally, in pictures or using apparatus Use words add, subtract, equals, increase, decrease, inverse Recall all number bonds to and within 10 and use these to reason with and calculate bonds to within 20 recognising relationships Recall multiplication and division facts for 2, 5, and 10 and use them to solve simple problems, demonstrating an understanding of commutativity Use words multiply, divide, inverse, repeated addition, repeated subtraction, group, share, array Identify $\frac{1}{2}$, $\frac{1}{3}$, $\frac{1}{4}$, $\frac{2}{4}$, $\frac{3}{4}$ of a number or shape and know that they are part of a whole. Use half, quarter, numerator, denominator Use different coins to make the same amount. Use pound and pence including notation Read time on the clock to the nearest 15 minutes. Know and use minute, hour, second, half hour, quarter hour Name and describe 2 D shapes (circle, square, rectangle, triangle, pentagon, Hexagon) including number of sides, vertices and lines of symmetry Name and describe 3 D shapes (sphere, cube, cuboid, pyramid, cylinder, triangular Prism) including number of faces, edges and vertices 	Tens, ones, partition, compare $<$ $>$ more than and less than
	Number: Addition and Subtraction		Bonds, calculation, addition subtraction, take away
	Geometry: Shape		Side, symmetry, vertical, vertices, faces, edge
	Measurement: Money		Value, total – able to read combinations of pounds and pence
	Number: Multiplication and Division		Multiply, divide, double, halve, odd and even
	Measurement: Length and Height		Centimetres (cm), Metres, (M), measure, units
	Measurement: Mass, Capacity and Temperature		Grams (g), Kilograms (KG), Degrees Celsius ($^{\circ}\text{C}$)
	Number: Fractions		$\frac{1}{3}$ (thirds) $\frac{3}{4}$ (three-quarters) $\frac{2}{4}$ (two-quarters), parts
	Measurement: Time		O'clock, half past, quarter past, quarter to, to and past the hour
	Statistics		Tally, groups, table, pictogram
	Geometry: Position and Direction		Clockwise, anticlockwise, half turn, quarter turn, three quarter turn
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Year 3	Number: Place Value	<ul style="list-style-type: none"> Count in multiples of 4, 8, 50 and 100 Compare and order numbers up to 1000 using highest lowest greater than less than Add and subtract numbers mentally, including round numbers to HTU Add and subtract using standard column method Use words add, subtract, hundreds, tens, ones, column, exchange, equals Estimate answers to calculations and use the inverse to check answers Know 3×, 4× and 8× tables Count up and down in tenths Understand that tenths are Outcomes or quantities divided into ten equal parts Compare and order simple fractions Recognise and show equivalent fractions Find and write fractions of a set of objects Add and subtract fractions with common denominators (less than one) Measure, compare and calculate measures using standard units Measure the perimeter of simple 2-D shapes Add and subtract money, including giving change Tell and write the time from an analogue clock, including using Roman numerals Estimate and read time to the nearest minute Identify horizontal, vertical, parallel and perpendicular lines Identify whether angles are greater or less than a right angle Interpret and present data using bar charts, pictograms and tables 	Hundreds, intervals, halfway, place value
	Number: Addition and Subtraction		Columns, increase, decrease, plus, minus, Exchange
	Number: Multiplication and Division A		Multiple, sharing grouping, multiplying and dividing
	Number: Multiplication and Division B		Multiple, sharing grouping, multiplying and dividing
	Measurement: Length and Perimeter		Perimeter, millimetres (mm), measurements
	Number: Fractions A		numerator, denominator, equivalent
	Measurement: Mass and Capacity		fifths, Mass, capacity, millilitres (ml), litres (L)
	Number: Fractions B		fifths, sixths, sevenths, eighths, nineths, tenths
	Measurement: Money		Change and all previous vocabulary
	Measurement: Time		12-hour time, 24-hour time, am, pm, digital
	Geometry: Shape		Angles, right angles, acute, obtuse, parallel perpendicular
	Statistics		Bar chart, vertical axis, horizontal axis,
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Year 4	Number: Place Value	<ul style="list-style-type: none"> Count backwards through zero, including negative numbers Recognise place value in four-digit numbers Round any number to the nearest 10, 100 or 1000 Know tables up to 12×12 Use place value and number facts to carry out mental calculations Use factor pairs and commutativity in mental calculations Use short multiplication method Recognise and use hundredths Recognise and write decimal equivalents to $\frac{1}{4}$, $\frac{1}{2}$ and $\frac{3}{4}$ Divide one- or two-digit numbers by 10 and 100, using tenths and hundredths Round decimals with one decimal place to the nearest whole number Compare numbers up to two decimal places Convert between different units of metric measurement, including money Find the area of rectilinear shapes by counting squares Solve problems converting units of time Compare and classify shapes, including quadrilaterals and triangles Complete a simple symmetric figure with respect to a specific line of symmetry. Describe positions on a 2-D grid using co-ordinates Describe translations using a given unit to the left/right and up/down Interpret and present discrete and continuous data on appropriate graphs 	Thousands, ascending, descending, rounding, roman numerals
	Number: Addition and Subtraction		Estimate, inverse, difference, sum
	Measurement: Area		Centimetres squared, (cm ²), area
	Number: Multiplication and Division A		Multiple, sharing grouping, multiplying and dividing
	Number: Multiplication and Division B		Factors, factor pairs, placeholder, remainder,
	Measurement: Length and Perimeter		Kilometres, (KM), rectilinear shapes
	Number: Fractions		proper, numerator, denominator, equivalent
	Number: Decimals A		decimal, decimal point, tenth hundredth, 2 decimal places
	Number: Decimals B		decimal, decimal point, tenth hundredth, 2 decimal places
	Measurement: Money		Decimals and all previous vocabulary
	Measurement: Time		All previous vocabulary
	Geometry: Shape		polygon, triangles, quadrilaterals, scalene, equilateral, isosceles
	Statistics		Line graph, sum, difference, x axis, y axis
	Geometry: Position and Direction		x axis, y axis, coordinates, translate, translation
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Year 5	Number: Place Value	<ul style="list-style-type: none"> Interpret negative numbers in context Read Roman numerals to 1000, including years Recognise and use square and cube numbers, and know the notation Use rounding to check answers and determine accuracy Identify multiples and factors, including finding factor pairs and common factors Use vocabulary: prime numbers, prime factors and composite numbers Know prime numbers up to 19 Multiply and divide numbers by 10, 100 or 1000, including decimals Use long multiplication for multiplying numbers of up to 4 digits by one or two digits Divide numbers using standard written short division Convert between mixed numbers and improper fractions Compare and order fractions whose denominators are multiples of the same number Identify, name and write equivalent fractions including tenths and hundredths Add and subtract fractions with denominators that are multiples of the same number Multiply proper fractions and mixed numbers by whole numbers with support Read and write decimal numbers as fractions Round decimals with 2 decimal places to whole number or to one decimal place Read, write, order and compare numbers with up to 3 decimal places Recognise % symbol and explain as a fraction with denominator 100 (parts out of 100) Understand and use common approximate conversions between metric and imperial Measure and calculate the perimeter of composite rectilinear shapes Calculate the area of rectangles, and estimate the area of irregular shapes Use the properties of rectangles to find missing lengths and angles Distinguish between regular and irregular polygons Identify 3-d shapes from 2-d representations Know angles are measured in degrees and compare acute, obtuse and reflex angles Draw and measure angles to the nearest degree Identify angles at a point, in a turn and on a straight line Describe and represent the result of a reflection or translation Complete, read and interpret information in tables, including timetables 	Ten thousands, hundred thousands, rounding
	Number: Addition and Subtraction		All previous vocabulary
	Number: Multiplication and Division A		Product, prime numbers, prime factors, squared numbers, cubed numbers
	Number: Fractions A		Common denominator, tenth, hundredth, mixed number and improper
	Number: Multiplication and Division B		Estimate, remainder, short division
	Number: Fractions B		Common denominator, tenth, hundredth, mixed number and improper
	Number: Decimals and Percentages		Whole, decimal, fraction, percentage, convert
	Measurement: Perimeter and Area		Compound, rectilinear shape, area, m ²
	Statistics		Tables, timetables, columns, rows, time related vocabulary from previous years
	Geometry: Shape		Straight line angle, reflex, regular and irregular, nets
	Geometry: Position and Direction		translate, translation, reflect, reflection, symmetry
	Number: Decimals		Thousandths, 3 decimal places, decimal point
	Number: Negative Numbers		Negative, difference, minus, negative temperatures (°C)



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	Measurement: Converting Units		Converting, conversion, metric, imperial – vocabulary around units
	Measurement: Volume		Volume, capacity, Cubed, cm ³
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Year 6	Number: Place Value	<ul style="list-style-type: none"> • Demonstrate an understanding of place value, including decimals • Calculate mentally, using efficient strategies such as manipulating expressions using commutative and distributive properties to simplify the calculation • Use formal methods to solve multi-step problems • Recognise the relationship between fractions, decimals and percentages and can express them as equivalent quantities • Calculate using fractions, decimals or percentages • Substitute values into a simple formula to solve problems • Convert between different units of metric measurement, including money • Calculate with measures • Use mathematical reasoning to find missing angles 	Millions + all previous vocabulary
	Number: Addition and Subtraction		Order of operations + all previous vocabulary
	Number: Multiplication and Division		Simplifying - all previous vocabulary
	Number: Fractions		Per cent, percentage of an amount, calculating
	Number: Percentages		Formulae, value, algebra, equations
	Number: Algebra		Whole, decimal, fraction, percentage, convert
	Number: Fractions, Decimals and Percentages		circumference, radius, diameter, nets
	Geometry: Shape		Vertically opposite – all previous vocabulary
	Geometry: Angles		Rotation, translation, reflection, 4 quadrants
	Geometry: Position and Direction		Ratio, scale factor, proportion, ratio symbol
	Number: Ratio and Proportion		



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	Measurement: Converting Units		Converting, conversion, metric, imperial – vocabulary around units
	Measurement: Perimeter and Area		Formulae + all previous vocabulary
	Measurement: Volume		Volume, capacity, Cubed, cm ³