



## XII Apostles RCPS – Maths Outcomes Document

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



## XII Apostles RCPS – Maths Outcomes Document

|            |                                              | <ul style="list-style-type: none"> <li>Recognise, find and name a half</li> <li>Recognise, find and name a quarter</li> <li>Measure, begin to record and use words related to length long, short, small, tall</li> <li>Measure, begin to record and use words related to mass heavy light</li> <li>Measure, begin to record and use words related to volume</li> <li>Measure, begin to record and use words related to time minute, second, hour, week, month, year</li> <li>Recognise and use language relating to dates days of the week, months of the year</li> <li>Tell the time to the half-hour, including drawing clocks</li> <li>Recognise and know the value of all coins and notes</li> <li>Use language to sequence events in chronological order first, second, third, fourth, last</li> <li>Recognise and name common 2-D shapes circle, square, triangle, rectangle</li> <li>Recognise and name common 3-D shapes cube, cuboid, cylinder, pyramid, sphere</li> <li>Know and use the words add, subtract, equals</li> </ul> | circles and triangles<br>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                                                                                                        |
| Year Group | Topic                                        | Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                  | Key Vocabulary                                                                                                                                      |

## XII Apostles RCPS – Maths Outcomes Document

| Year 2     | Number: Place Value                         | <ul style="list-style-type: none"> <li>Read scales in divisions of ones, twos, fives and tens</li> <li>Partition any 2-digit number into different combinations of tens and ones. Explain their thinking verbally, in pictures or using apparatus</li> <li>Use words tens, ones, partition</li> <li>Add and subtract any 2-digit numbers using efficient strategy. Explain their thinking verbally, in pictures or using apparatus</li> <li>Use words add, subtract, equals, increase, decrease, inverse</li> <li>Recall all number bonds to and within 10 and use these to reason with and calculate bonds to within 20 recognising relationships</li> <li>Recall multiplication and division facts for 2, 5, and 10 and use them to solve simple problems, demonstrating an understanding of commutativity</li> <li>Use words multiply, divide, inverse, repeated addition, repeated subtraction, group, share, array</li> <li>Identify <math>\frac{1}{2}</math>, <math>\frac{1}{3}</math>, <math>\frac{1}{4}</math>, <math>\frac{2}{4}</math>, <math>\frac{3}{4}</math> of a number or shape and know that they are part of a whole. Use half, quarter, numerator, denominator</li> <li>Use different coins to make the same amount. Use pound and pence including notation</li> <li>Read time on the clock to the nearest 15 minutes. Know and use minute, hour, second, half hour, quarter hour</li> <li>Name and describe 2 D shapes (circle, square, rectangle, triangle, pentagon, Hexagon) including number of sides, vertices and lines of symmetry</li> <li>Name and describe 3 D shapes (sphere, cube, cuboid, pyramid, cylinder, triangular Prism) including number of faces, edges and vertices</li> </ul> | 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                     |
| Year Group | Topic                                       | Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                 | Key Vocabulary                                                                            |

## XII Apostles RCPS – Maths Outcomes Document

|                   |                                              |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    |                                                             |
|-------------------|----------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|-------------------------------------------------------------|
| <b>Year 3</b>     | <b>Number: Place Value</b>                   | <ul style="list-style-type: none"> <li>Count in multiples of 4, 8, 50 and 100</li> <li>Compare and order numbers up to 1000 using highest lowest greater than less than</li> <li>Add and subtract numbers mentally, including round numbers to HTU</li> <li>Add and subtract using standard column method</li> <li>Use words add, subtract, hundreds, tens, ones, column, exchange, equals</li> <li>Estimate answers to calculations and use the inverse to check answers</li> <li>Know 3×, 4× and 8× tables</li> <li>Count up and down in tenths</li> <li>Understand that tenths are Outcomes or quantities divided into ten equal parts</li> <li>Compare and order simple fractions</li> <li>Recognise and show equivalent fractions</li> <li>Find and write fractions of a set of objects</li> <li>Add and subtract fractions with common denominators (less than one)</li> <li>Measure, compare and calculate measures using standard units</li> <li>Measure the perimeter of simple 2-D shapes</li> <li>Add and subtract money, including giving change</li> <li>Tell and write the time from an analogue clock, including using Roman numerals</li> <li>Estimate and read time to the nearest minute</li> <li>Identify horizontal, vertical, parallel and perpendicular lines</li> <li>Identify whether angles are greater or less than a right angle</li> <li>Interpret and present data using bar charts, pictograms and tables</li> </ul> | Hundreds, intervals, halfway, place value                   |
|                   | <b>Number: Addition and Subtraction</b>      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Columns, increase, decrease, plus, minus, Exchange          |
|                   | <b>Number: Multiplication and Division A</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Multiple, sharing grouping, multiplying and dividing        |
|                   | <b>Number: Multiplication and Division B</b> |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Multiple, sharing grouping, multiplying and dividing        |
|                   | <b>Measurement: Length and Perimeter</b>     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Perimeter, millimetres (mm), measurements                   |
|                   | <b>Number: Fractions A</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | numerator, denominator, equivalent                          |
|                   | <b>Measurement: Mass and Capacity</b>        |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | fifths, Mass, capacity, millilitres (ml), litres (L)        |
|                   | <b>Number: Fractions B</b>                   |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | fifths, sixths, sevenths, eighths, nineths, tenths          |
|                   | <b>Measurement: Money</b>                    |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Change and all previous vocabulary                          |
|                   | <b>Measurement: Time</b>                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | 12-hour time, 24-hour time, am, pm, digital                 |
|                   | <b>Geometry: Shape</b>                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Angles, right angles, acute, obtuse, parallel perpendicular |
|                   | <b>Statistics</b>                            |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | Bar chart, vertical axis, horizontal axis,                  |
| <b>Year Group</b> | <b>Topic</b>                                 | <b>Outcomes</b>                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                    | <b>Key Vocabulary</b>                                       |

## XII Apostles RCPS – Maths Outcomes Document

|            |                                       |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         |                                                                     |
|------------|---------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------|
| Year 4     | Number: Place Value                   | <ul style="list-style-type: none"> <li>Count backwards through zero, including negative numbers</li> <li>Recognise place value in four-digit numbers</li> <li>Round any number to the nearest 10, 100 or 1000</li> <li>Know tables up to <math>12 \times 12</math></li> <li>Use place value and number facts to carry out mental calculations</li> <li>Use factor pairs and commutativity in mental calculations</li> <li>Use short multiplication method</li> <li>Recognise and use hundredths</li> <li>Recognise and write decimal equivalents to <math>\frac{1}{4}</math>, <math>\frac{1}{2}</math> and <math>\frac{3}{4}</math></li> <li>Divide one- or two-digit numbers by 10 and 100, using tenths and hundredths</li> <li>Round decimals with one decimal place to the nearest whole number</li> <li>Compare numbers up to two decimal places</li> <li>Convert between different units of metric measurement, including money</li> <li>Find the area of rectilinear shapes by counting squares</li> <li>Solve problems converting units of time</li> <li>Compare and classify shapes, including quadrilaterals and triangles</li> <li>Complete a simple symmetric figure with respect to a specific line of symmetry.</li> <li>Describe positions on a 2-D grid using co-ordinates</li> <li>Describe translations using a given unit to the left/right and up/down</li> <li>Interpret and present discrete and continuous data on appropriate graphs</li> </ul> | Thousands, ascending, descending, rounding, roman numerals          |
|            | Number: Addition and Subtraction      |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Estimate, inverse, difference, sum                                  |
|            | Measurement: Area                     |                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                         | Centimetres squared, (cm <sup>2</sup> ), 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                 |
| Year Group | Topic                                 | Outcomes                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                                | Key Vocabulary                                                      |

## XII Apostles RCPS – Maths Outcomes Document

| Year 5 | Number: Place Value                   | <ul style="list-style-type: none"> <li>Interpret negative numbers in context</li> <li>Read Roman numerals to 1000, including years</li> <li>Recognise and use square and cube numbers, and know the notation</li> <li>Use rounding to check answers and determine accuracy</li> <li>Identify multiples and factors, including finding factor pairs and common factors</li> <li>Use vocabulary: prime numbers, prime factors and composite numbers</li> <li>Know prime numbers up to 19</li> <li>Multiply and divide numbers by 10, 100 or 1000, including decimals</li> <li>Use long multiplication for multiplying numbers of up to 4 digits by one or two digits</li> <li>Divide numbers using standard written short division</li> <li>Convert between mixed numbers and improper fractions</li> <li>Compare and order fractions whose denominators are multiples of the same number</li> <li>Identify, name and write equivalent fractions including tenths and hundredths</li> <li>Add and subtract fractions with denominators that are multiples of the same number</li> <li>Multiply proper fractions and mixed numbers by whole numbers with support</li> <li>Read and write decimal numbers as fractions</li> <li>Round decimals with 2 decimal places to whole number or to one decimal place</li> <li>Read, write, order and compare numbers with up to 3 decimal places</li> <li>Recognise % symbol and explain as a fraction with denominator 100 (parts out of 100)</li> <li>Understand and use common approximate conversions between metric and imperial</li> <li>Measure and calculate the perimeter of composite rectilinear shapes</li> <li>Calculate the area of rectangles, and estimate the area of irregular shapes</li> <li>Use the properties of rectangles to find missing lengths and angles</li> <li>Distinguish between regular and irregular polygons</li> <li>Identify 3-d shapes from 2-d representations</li> <li>Know angles are measured in degrees and compare acute, obtuse and reflex angles</li> <li>Draw and measure angles to the nearest degree</li> <li>Identify angles at a point, in a turn and on a straight line</li> <li>Describe and represent the result of a reflection or translation</li> <li>Complete, read and interpret information in tables, including timetables</li> </ul> | 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 <sup>2</sup>                              |
|        | 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)                        |

## XII Apostles RCPS – Maths Outcomes Document

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



## XII Apostles RCPS – Maths Outcomes Document

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