

The Rosary Catholic Primary School

Aspire, Believe, Achieve: Together in Christ



M A T H E M A T I C S

Y E A R 5

Key Performance Indicators: A.R.E.

<p>Number and place value</p> <p>*Reads, writes, orders and compares numbers to at least 1,000,000 and determines the value of each digit</p> <p>*Interprets negative numbers in context, counts forwards and backwards with positive and negative whole numbers including through zero</p>	<p>Fractions and Decimals</p> <p>*Compares and orders fractions whose denominators are all multiples of the same number</p> <p>*Reads and writes decimal numbers as fractions e.g. $0.71 = 71/100$</p> <p>*Reads, writes, orders and compares numbers with up to three decimal places</p> <p>*Solves problems which require knowing percentage and decimal equivalents of $1/2, 1/4, 1/5, 2/5, 4/5$ and those fractions with a denominator of a multiple of 10 or</p>
<p>Addition and Subtraction</p> <p>*Adds and subtracts whole numbers with more than four digits, including using formal written methods (columnar addition and subtraction)</p> <p>*Numbers mentally with increasingly large numbers (e.g. $12,462 - 2,300 = 10,162$)</p>	<p>Measurements</p> <p>*Converts between different units of metric measure (e.g. kilometre and metre; centimetre and metre; centimetre and millimetre; gram and kilogram; litre and millilitre)</p> <p>*Measures and calculates the perimeter of composite rectilinear shapes in centimetres and metres</p> <p>*Calculates and compares the area of rectangles (including squares), and including using standard units, square centimetres (cm²) and square metres (m²)</p>
<p>Multiplication and Division</p> <p>*Identifies multiples and factors including finding all factor pairs of a number and common factors of two numbers</p> <p>*Solves problems involving multiplication and division, including scaling by simple fractions and problems involving simple rates</p>	<p>Geometry: properties of shape</p> <p>*Draws given angles and measures them in degrees (°)</p> <p>*Distinguishes between regular and irregular polygons based on reasoning about equal sides and angles</p> <p>Geometry: position and direction</p> <p>*Covered in year 6</p> <p>Statistics</p> <p>*Completes, reads and interprets information in tables, including timetables</p>

Performance Standard – End of Year

<p>With reference to the KPIs</p> <p>By the end of Y5, a child should be fluent in formal written methods for addition and subtraction. Using a developing knowledge of formal methods of multiplication and division, a child should be able to solve problems including properties of numbers and arithmetic</p> <p>A child can:</p> <p>make connections between fractions, decimals and percentages;</p> <p>classify shapes with geometric properties and use the vocabulary needed to describe them; and</p> <p>read, spell and pronounce mathematical vocabulary correctly.</p>
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