

Curriculum Journey 2025-2025

Subject: Mathematics

Year 8	Half Term 1	Half term 2	Half Term 3	Half Term 4	Half term 5	Half Term 6
Topic	Ratio Proportion and Scale Algebraic Manipulation	Coordinates and graphs Multiply and divide fractions Symmetry and reflection	Area, volume and density Equations and inequalities Percentages	Indices Standard Form Interpret and represent data	Angles in parallel lines and polygons Tables and Probability	Circles Graphs and Charts Sequences
Vocabulary	<ol style="list-style-type: none"> Ratio Proportion Equivalent Simplify Scale Part-to-part Part-to-whole Divide Share Fraction 	<ol style="list-style-type: none"> Proportion Scale Enlargement Similar Factor Conversion Map Diagram Scale factor Mode 	<ol style="list-style-type: none"> Variable Term Simplify Expand Factorise Coordinate Plot Quadrant Linear Substitute 	<ol style="list-style-type: none"> Numerator Denominator Product Quotient Reciprocal Symmetry Reflection Line of symmetry Mirror line Congruent 	<ol style="list-style-type: none"> Area Volume Density Formula Prism Inequality Solution Variable Rearrange Unknown 	<ol style="list-style-type: none"> Percentage Multiplier Index Power Standard form Probability Frequency Pie chart Polygon Alternate angle
Assessment	A and B Milestones	A and B Milestones	A and B Milestones Summative Assessment Point 1	A and B Milestones	A and B Milestones	A and B Milestones Summative Assessment Point 2



<p>Links to prior learning</p>	<ul style="list-style-type: none"> • Understanding fractions as parts of a whole • Multiplication and division facts • Applying place value to solve scaling problems • Recognising equal groups • Solving simple proportion questions in Year 7 	<ul style="list-style-type: none"> • Understanding ratio from HT1 • Using multiplication and division • Working with measures and units • Interpreting diagrams and scale drawings • Applying multiplication to scale up/down 	<ul style="list-style-type: none"> • Simplifying arithmetic expressions • Substituting values in function machines • Plotting points in one quadrant in Year 7 • Recognising patterns in sequences • Using times tables for calculating values 	<ul style="list-style-type: none"> • Understanding fractions as parts of a whole • Multiplying and dividing whole numbers • Recognising shapes and lines of symmetry in Year 7 • Using times tables • Understanding factors and multiples 	<ul style="list-style-type: none"> • Calculating area and perimeter of rectangles • Understanding 3D shapes and nets • Solving simple equations in Year 7 • Applying multiplication/division • Recognising patterns in shape dimensions 	<ul style="list-style-type: none"> • Converting fractions, decimals and percentages • Using multiplication facts • Understanding square and cube numbers • Reading graphs and charts in Year 7 • Working with basic angle facts
<p>Catholic Social Teaching</p>	<p>Promotes fairness and equity, reflecting the dignity of every person when sharing and dividing resource</p>	<p>Highlights stewardship by using resources wisely and accurately, respecting fairness and honesty.</p>	<p>Encourages logical thinking and reasoning, valuing the God-given gift of human intellect and its order</p>	<p>Celebrates the beauty and balance in creation, linking to symmetry and fairness.</p>	<p>Highlights stewardship through understanding measures, using resources wisely, and fairness in calculations.</p>	<p>Encourages honesty and integrity when handling data and interpreting results, respecting truth.</p>
<p>Careers and Personal Development links</p>	<p>Supports skills needed in catering, design, construction, and financial planning where ratio</p>	<p>Links to careers in architecture, engineering, and map reading where scaling and proportion are key.</p>	<p>Supports future pathways in coding, computer science and design</p>	<p>Connects to careers in art, design, engineering, and fashion where precision and</p>	<p>Relevant to engineering, science, architecture, and construction roles.</p>	<p>Links to careers in statistics, data analysis, finance, and quality control.</p>



	calculations are essential.			pattern are essential.		
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