

Curriculum Journey 2025-2025

Subject: Mathematics Foundation

Exam board: Edexcel

Year 10	Half Term 1	Half term 2	Half Term 3	Half Term 4	Half term 5	Half Term 6
Topic	Integers and place value; Decimals; Indices, roots, factors, multiples, primes	Algebra basics; Expressions and substitution; Sequences	Tables, charts and graphs; Pie charts; Scatter graphs	Fractions, decimals and percentages; Equations and inequalities	Properties of shapes and angles; Polygons and angle facts; Perimeter, area and volume	Straight line graphs; Real-life graphs; Transformations; Ratio and proportion
Vocabulary	<ol style="list-style-type: none"> 1. Integer 2. Place value 3. Decimal 4. Estimate 5. Significant figure 6. Factor 7. Multiple 8. Prime 9. Index 0. Root 	<ol style="list-style-type: none"> 1. Expression 2. Equation 3. Formula 4. Term 5. Simplify 6. Expand 7. Factorise 8. Substitute 9. Sequence 10. nth term 	<ol style="list-style-type: none"> 1. Frequency 2. Mode 3. Median 4. Range 5. Correlation 6. Pie chart 7. Bar chart 8. Line graph 9. Outlier 10. Predict 	<ol style="list-style-type: none"> 1. Numerator 2. Denominator 3. Mixed number 4. Improper fraction 5. Percentage 6. Convert 7. Increase 8. Decrease 9. Inequality 10. Variable 	<ol style="list-style-type: none"> 1. Angle 2. Polygon 3. Parallel 4. Perpendicular 5. Regular 6. Interior 7. Exterior 8. Perimeter 9. Area 10. Volume 	<ol style="list-style-type: none"> 1. Coordinate 2. Gradient 3. Intercept 4. Translation 5. Rotation 6. Reflection 7. Enlargement 8. Ratio 9. Proportion 10. Scale
Assessment						



<p>Links to prior learning</p>	<ul style="list-style-type: none"> Ordering and comparing whole numbers and decimals from KS3 Times tables recall Understanding place value and rounding Laws of indices basics Factors and multiples, including prime factorisation 	<ul style="list-style-type: none"> Simplifying arithmetic expressions Using function machines Recognising and continuing patterns in sequences Substituting values into simple formulae Collecting like terms 	<ul style="list-style-type: none"> Collecting and interpreting data in KS3 Reading simple bar and line graphs Calculating averages Using tables to display information Understanding axes and coordinates 	<ul style="list-style-type: none"> Understanding fractions and equivalence Applying four operations to fractions and decimals Converting between fractions, decimals and percentages Solving one-step equations Using inequality symbols 	<ul style="list-style-type: none"> Naming and classifying 2D shapes Recognising types of angles Measuring with protractors and rulers Finding perimeters and areas of simple shapes Using formulas for area and volume 	<ul style="list-style-type: none"> Plotting coordinates in all four quadrants Drawing and interpreting straight line graphs Recognising basic transformations Understanding and applying ratios Using scale in maps and drawings
<p>Catholic Social Teaching</p>	<p>Promotes honesty and accuracy, reflecting integrity and truthfulness when handling numbers and measurements.</p>	<p>Encourages logical thinking and valuing the gift of reason, mirroring order in creation.</p>	<p>Promotes honesty and truthfulness in presenting and interpreting data, respecting the dignity of others</p>	<p>Supports fairness and proportion, encouraging honest comparisons and respectful sharing.</p>	<p>Promotes stewardship through valuing precision, beauty and patterns within creation</p>	<p>Encourages clarity and fairness, respecting accurate and truthful representations in drawings and calculations.</p>
<p>Careers and Personal Development links</p>	<p>Supports essential skills for working with money, trades, engineering, and data entry.</p>	<p>Relevant for coding, engineering, design, and technical problem-solving roles.</p>	<p>Useful for data handling in retail, business, healthcare, and everyday life.</p>	<p>Vital for finance, retail pricing, budgeting, and trades involving measurements.</p>	<p>Links to construction, design, architecture, and trades requiring</p>	<p>Supports skills in technical drawing, engineering, geography, and everyday problem-solving</p>



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