



Curriculum Journey 2025-2025
Subject: Mathematics Higher
Exam board: Edexcel

Year 10	Half Term 1	Half term 2	Half Term 3	Half Term 4	Half term 5	Half Term 6
Topic	Calculations and rounding Indices, roots, reciprocals Factors, multiples, primes Standard form Surds	Algebra (expressions, formulae, equations, inequalities); Sequences Ratio and proportion	Averages and range Representing and interpreting data Probability	Graphs (straight lines, quadratics, cubics, reciprocals) Coordinate geometry Real-life graphs	Geometry (angles in polygons, parallel lines); Pythagoras and trigonometry; Perimeter, area, volume, circles	Transformations; Constructions, loci, bearings
Vocabulary	<ol style="list-style-type: none"> Integer Significant figure Decimal place Reciprocal Index Surd Prime Standard form Estimate Factor 	<ol style="list-style-type: none"> Expression Equation Formula Inequality Identity Term Sequence nth term Ratio Proportion 	<ol style="list-style-type: none"> Mean Median Mode Range Frequency Probability Outcome Sample space Correlation Estimate 	<ol style="list-style-type: none"> Gradient Intercept Quadratic Cubic Reciprocal Coordinate Parallel Perpendicular Function Linear 	<ol style="list-style-type: none"> Polygon Interior angle Exterior angle Hypotenuse Sine Cosine Tangent Circumference Area Volume 	<ol style="list-style-type: none"> Transformation Rotation Reflection Translation Enlargement Congruent Loci Bearing Vector Scale
Assessment						



<p>Links to prior learning</p>	<ul style="list-style-type: none"> • Rounding numbers and estimating (KS3) • Understanding place value and significant figures • Laws of indices from Year 9 • Factors and multiples, including prime factorisation • Working with fractions, decimals, and percentages 	<ul style="list-style-type: none"> • Substituting into simple expressions (KS3) • Expanding brackets and simplifying • Solving linear equations and inequalities • Recognising patterns in sequences • Working with ratios to compare quantities 	<ul style="list-style-type: none"> • Calculating averages (mean, median, mode) in KS3 • Interpreting bar charts, pie charts, scatter graphs • Understanding probability with simple experiments (dice, coins) • Using tables and diagrams to organise data • Calculating basic probabilities as fractions and decimals 	<ul style="list-style-type: none"> • Plotting coordinates and straight-line graphs in KS3 • Using the equation $y = mx + c$ • Substituting values into simple formulae • Recognising simple curves (parabolas, reciprocal graphs) • Interpreting distance-time graphs 	<ul style="list-style-type: none"> • Properties of 2D shapes • Angle sums in triangles and quadrilaterals • Right-angled triangle calculations • Applying formulae for area and perimeter • Recognising and naming parts of a circle 	<ul style="list-style-type: none"> • Symmetry and transformations in KS3 • Plotting coordinates and drawing shapes on grids • Angle measures and properties of parallel lines • Understanding scale and map skills • Compass directions and simple bearings
<p>Catholic Social Teaching</p>	<p>Highlights honesty and precision, reflecting integrity and truthfulness in working with numerical information.</p>	<p>Promotes logical reasoning and fairness, mirroring the order and consistency found in creation.</p>	<p>Promotes fairness and respect for truth through accurate data interpretation and honest representation.</p>	<p>Encourages clarity and order, reflecting God's created patterns and relationships.</p>	<p>Promotes stewardship by using resources wisely and valuing the beauty and symmetry of creation.</p>	<p>Highlights respect for precision, care for detail, and fair use of resources in planning and design.</p>



Careers and Personal Development links	Supports skills needed in finance, engineering, data handling, and scientific calculations.	Relevant to careers in coding, accountancy, architecture, and technical fields.	Links to statistics, market research, data science, and everyday decision-making.	Relevant to engineering, surveying, physics, and computer graphics.	Links to construction, architecture, surveying, and interior design.	Supports careers in technical drawing, engineering, geography, and navigation.
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