



Curriculum Journey 2025-2025
Subject: Mathematics 11 Higher
Exam board: Edexcel

Year 11	Half Term 1	Half term 2	Half Term 3	Half Term 4	Half term 5	Half Term 6
Topic	Probability; Multiplicative reasoning (direct & inverse proportion, compound measures, growth/decay); Similarity and congruence	Graphs of trigonometric functions; Further trigonometry; Collecting data; Cumulative frequency, box plots, histograms	Quadratics (expanding, sketching graphs, simultaneous equations, inequalities); Circle theorems and circle geometry; Changing the subject of formulae, algebraic fractions, rationalising surds, proof	Vectors and geometric proof; Reciprocal and exponential graphs; Gradient and area under graphs; Direct and inverse proportion		
Vocabulary	<ul style="list-style-type: none"> • Probability • Experimental • Theoretical • Conditional • Independent • Ratio • Proportion • Compound measure • Similar • Congruent 	<ul style="list-style-type: none"> • Sine • Cosine • Tangent • Frequency • Bias • Histogram • Box plot • Median • Interquartile range • Amplitude 	<ul style="list-style-type: none"> • Quadratic • Parabola • Inequality • Circle theorem • Tangent • Surd • Proof • Factorise • Rearrange • Simultaneous 	<ul style="list-style-type: none"> • Vector • Magnitude • Scalar • Reciprocal • Exponential • Gradient • Area under curve • Transformation • Direct proportion • Inverse proportion 		



Assessment	Milestones	Milestones and Mock	Milestones	Milestones and Mock		
Links to prior learning	<ul style="list-style-type: none"> Understanding fractions, decimals, and percentages Ratio and proportion basics from KS3 Interpreting simple probability Basic angle and shape facts Applying scale factor in enlargements 	<ul style="list-style-type: none"> Applying angle facts and triangle properties Using Pythagoras and trigonometric ratios Plotting coordinates Collecting and interpreting simple data in KS3 Working with averages and spread 	<ul style="list-style-type: none"> Solving linear equations and simple quadratics Expanding brackets Understanding properties of circles Using formulae Recognising square numbers and roots 	<ul style="list-style-type: none"> Plotting coordinates and straight-line graphs Solving proportion problems Understanding gradient as rate of change Working with transformations Using formulae and manipulating algebra 		
Catholic Social Teaching	Encourages honesty, fairness, and accuracy when working with comparisons and probabilities, reflecting justice and integrity.	Highlights the importance of truthfulness and transparency in the fair presentation of data and honest measurement.	Promotes order and clarity, reflecting logical and reasoned thinking as gifts to be nurtured and shared responsibly.	Highlights fairness and the responsible use of mathematical skills to interpret, design, and build a better society.		



Careers and Personal Development links	Supports skills needed in data analysis, finance, engineering, and project planning.	Links to roles in engineering, science, market research, and data-driven decision-making.	Relevant to architecture, advanced engineering, coding, and quality control.	Supports roles in STEM fields, such as engineering, surveying, architecture, and logistics.		
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