

Online Catch Up Learning Guide

Subject - Maths

YEAR 10

Topic	Learn				Practice					Answers				
Autumn term														
Trigonometry (SOH CAH TOA)	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Exact Trig Values	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Finding the Area of Any Triangle	Video	-	-	-	MG	CM	-	-	-	MG	CM	-	-	-
The Sine Rule	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
The Cosine Rule	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Solving Equations	Video	Video	-	-	MG	CM1	CM2	CM3	MME	MG	CM1	CM2	CM3	MME
3D Pythagoras and Trigonometry	Video	-	-	-	MG	CM1	CM2	MME	-	MG	CM1	CM2	MME	-
Inequalities on Graphs (Regions)	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Quadratic Inequalities	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Congruent Triangles	Video	Video	-	-	MG	CM	-	-	-	MG	CM	-	-	-
Inequalities	Video	Video	-	-	MG	CM	MME1	MME2	-	MG	CM	MME1	MME2	-
Forming and Solving Equations	Video	-	-	-	MG	CM	-	-	-	MG	CM	-	-	-
Compound Interest and Depreciation	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Simultaneous Equations	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Quadratic Simultaneous Equations	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Spring term														
Bearings	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Sector Areas and Arc Lengths	Video	Video	-	-	MG	CM1	CM2	CM3	MME	MG	CM1	CM2	CM3	MME

Sharing Into Ratios	Video	-	-	-	MG	CM1	CM2	MME	-	MG	CM1	CM2	MME	-
Vectors	Video	Video	-	-	MG	CM1	CM2	MME1	MME2	MG	CM1	CM2	MME1	MME2
Vectors Proof Questions	Video	Video	Video	-	MG	-	-	-	-	MG	-	-	-	-
Summer term														
Cumulative Frequency	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Box Plots	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Histograms	Video	-	-	-	MG	CM	MME	-	-	MG	CM	CM2	-	-
Quadratic Sequences	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Surds	Video	Video	Video	-	MG	CM	MME1	MME2	-	MG	CM	MME1	MME2	-

YEAR 11

<u>Topic</u>	<u>Learn</u>				<u>Practice</u>					<u>Answers</u>				
<u>Autumn term</u>														
Gradient of a Line	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Shortest Distance Between Point and Line	Video	-	-	-	CM	-	-	-	-	CM	-	-	-	-
Equation of a Circle	Video	-	-	-	CM	MME	-	-	-	CM	MME	-	-	-
Perpendicular Lines and Equation of Tangent	Video	Video	Video	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Parallel and Perpendicular Lines (Equations)	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Cubic/Reciprocal Graphs	Video	-	-	-	MG	CM1	CM2	MME	-	MG	CM1	CM2	MME	-
Real Life and Distance Time Graphs	Video	-	-	-	MG	CM	MME1	MME2	-	MG	CM	MME1	MME2	-
Estimating Area Under a Graph	Video	-	-	-	CM	-	-	-	-	CM	-	-	-	-
Velocity Time Graphs	Video	Video	-	-	MG	MME	-	-	-	MG	MME	-	-	-

Expanding and Factorising	Video	Video	-	-	MG	CM1	CM2	CM3	MME1	MG	CM1	CM2	CM3	MME1
Expanding and Factorising Quadratics	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Factorising Harder Quadratics	Video	Video	Video	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Rearranging Harder Formulae	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Iteration	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Completing the Square	Video	-	-	-	MG	CM	MME1	MME2	-	MG	CM	MME1	MME2	-
Changing Subject of Formula (Rearranging)	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Quadratic Formula	Video	-	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Functions	Video	-	-	-	MME	-	-	-	-	MME	-	-	-	-
Inverse and Composite Functions	Video	Video	Video	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Algebraic Fractions	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Spring term														
Rates of Change	Video	Video	-	-	CM	-	-	-	-	CM	-	-	-	-
Interpolation	Video	-	-	-	CM	-	-	-	-	CM	-	-	-	-
Direct and Inverse Proportion	Video	-	-	-	MG	CM	-	-	-	MG	CM	-	-	-
Trigonometric and Exponential Graphs	Video	Video	-	-	MG	CM1	CM2	MME1	MME2	MG	CM1	CM2	MME1	MME2
Transforming Graphs	Video	Video	-	-	MG	CM	MME	-	-	MG	CM	MME	-	-
Turning Points of Graphs	Video	Video	-	-	MME	-	-	-	-	MME	-	-	-	-
Vectors Proof Questions	Video	Video	Video	-	MG	-	-	-	-	MG	-	-	-	-

See below for enrichment resources for KS4 GCSE

Category	Online learning resources
Learning and revision resources for all GCSE maths topics	HegartyMaths: videos and practise questions https://hegartymaths.com/login/learner
Exam Board: AQA	Kerboodle: Online version of textbook containing links to video lesson and MyMaths lessons and practise questions

	https://www.kerboodle.com/users/login Corbettmaths: videos, worksheets, revision tools https://www.kerboodle.com/users/login
Enrichment resources	Maths Careers www.mathscareers.org.uk Information is Beautiful www.informationisbeautiful.net Lovely examples of presenting information using infographics. Spurious Correlations www.tylervigen.com/spurious-correlations Fun examples of how correlation does not equal causation Reddit: Data is beautiful www.reddit.com/r/dataisbeautiful/ Posts of interesting data from around the world. Often related to current socio-political events. BBC More or Less www.bbc.co.uk/MoreOrLess Weekly podcasts investigating the numbers in the news.