



Year 8 Mathematics Examination

The mathematics exam will be divided into two papers:

Paper 1: Calculator (45 minutes)

Paper 2: Non-calculator (45 minutes)

Year 8 Trial Exam Revision Activities

Topic List		Revision Resources	
Topic and Blocks	Small Steps	Link to Pre-Recorded Lessons	Sparx Codes
Proportional Reasoning	1. Ratio and Scale	Understanding the meaning and representation of ratio	M885
		Understand and use ratio notation	M801
		Solve problems involving ratios of the form 1:n or n:1	M543
		Solve proportional problems involving the ratio m:n	M478
		Divide a value into a given ratio	M525
		Express ratios in their simplest integer form	M801
		Express ratios in the form 1:n	
		Compare ratios and related fractions	M267
		Understand pi as the ratio between diameter and circumference	
		Understand gradient of a line as a ratio	
	2. Multiplicative Change	Solve problems involving direct proportion	M472
		Explore conversion graphs	M448
		Convert between currencies	U610
		Explore direct proportion graphs	M448
		Explore relationships between similar shapes	M377
		Understand scale factors as multiplicative relationships	M324
		Draw and interpret scale diagrams	M112
		Interpret maps using scale factors and ratio	M771
	3. Multiplying & Dividing Fractions	Represent multiplication of fractions	M157
		Multiply a fraction by an integer	M197
		Find the product of a pair of unit fractions	M157
		Find the product of a pair of any fractions	M157
		Divide an integer by a fraction	M110
		Divide a fraction by a unit fraction	M265
		Understand and use the reciprocal	
		Divide any pair of fractions	M110
		Multiply and divide improper and mixed fractions	M197
		Multiply and divide algebraic fractions	M568
Representations	4. Working in the Cartesian Plane	Work with coordinates in all four quadrants	M618
		Identify and draw lines that are parallel to the axes	M797
		Recognise and use the line $y=x$	M932
		Recognise and use lines of the form $y=kx$	M932
		Link $y=kx$ to direct proportion problems	
		Explore the gradient of the line $y=kx$	M888
		Recognise and use lines of the form $y=x+a$	M544
		Explore graphs with negative gradients ($y=-kx$, $y=a-x$, $x+y=a$)	M888
		Link graphs to linear sequences	M991
		Plot graphs of the form $y=mx+c$	M932
		Explore non-linear graphs	M205
		Find the midpoint of a line segment	M622



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Algebraic Techniques	5. Representing Data	Draw and interpret scatter graphs	https://vimeo.com/477518878	M769
		Understand and describe linear correlation	https://vimeo.com/477519085	M596
		Draw and use line of best fit (1)	https://vimeo.com/477519379	M769
		Identify non-linear relationships	https://vimeo.com/477519564	M770
		Identify different types of data	https://vimeo.com/478901964	M945
		Read and interpret ungrouped frequency tables	https://vimeo.com/481135393	M127
		Read and interpret grouped frequency tables	https://vimeo.com/481136083	M441
		Represent grouped discrete data	https://vimeo.com/481136452	M441
		Represent continuous data grouped into equal classes	https://vimeo.com/481136693	M441
		Represent data in two-way tables	https://vimeo.com/481137122	M899
	6. Tables and Probability	Construct sample spaces for 1 or more events	https://vimeo.com/483973328	M718
		Find probabilities from sample space	https://vimeo.com/483973160	M718
		Find probabilities from two-way tables	https://vimeo.com/483973037	M899
		Find probabilities from Venn diagrams	https://vimeo.com/483972889	M829
		Use the product rule for finding the total number of possible outcomes	https://vimeo.com/484074608	M938
	7. Brackets, Equations and Inequalities	Form algebraic expressions	https://vimeo.com/490422623#	M813
		Use directed number with algebra	https://vimeo.com/490423664	M830
		Multiply out a single bracket	https://vimeo.com/490424538#	M237
		Factorise into a single bracket	https://vimeo.com/490897953	M100
		Expand multiple single brackets and simplify	https://vimeo.com/490661257	M792
		Expand a pair of binomials	https://vimeo.com/491562906	M960
		Solve equations, including with brackets	https://vimeo.com/491562951	M902
		Form and solve equations with brackets	https://vimeo.com/491562998	M957
		Understand and solve simple inequalities	https://vimeo.com/492153004	M118
		Form and solve inequalities	https://vimeo.com/492153577	M957
		Solve equations and inequalities with unknowns on both sides	https://vimeo.com/492154163	M554
		Form and solve equations and inequalities with unknowns on both sides	https://vimeo.com/492154511	M957
		Identify and use formulae, expressions, identities and equations	https://vimeo.com/492155091	