

GRADES 4-9

Each video on Mathswatch can be searched using it's number code.

Each week, watch the 1 minute videos for each topic.

Once you've watched the video and understood the topic, tick the completed box.

If you do not understand it, click on the "Full Version" tab and watch the longer version.

Video Number	Title	Grade	Completed	Week
131	Index Notation	4		25-Sep
154	Negative Indices	5		
188	Fractional Indices	7		
132	Introduction to Bounds	4		02-Oct
155	Error Intervals	5		
156	Mathematical Reasoning	5		
177	Recurring Decimals to Fractions	6		
189	Recurring Decimals - Proof	7		
206	Upper and Lower Bounds	8 - 9		
134a	Expanding and Simplifying Brackets - Single Set of Brackets	4		09-Oct
134b	Expanding and Simplifying Brackets - Double Set of Brackets	4		
158	The Difference of Two Squares	5		
157	Factorising and Solving Quadratics	5		
192	Factorising Hard Quadratics	7		
142	Compound Units	4		16-Oct
143	Distance-Time Graphs	4		
144	Similar Shapes	4		
164	Compound Interest and Depreciation	5		
199	Direct and Inverse Proportion	7		
135a	Solving Equations - Balancing	4		23-Oct
135b	Solving Equations - Float & Ping	4		
136	Rearranging Simple Formulae	4		
137	Forming Formulae and Equations	4		
190	Rearranging difficult Formulae	7		
138	Inequalities on a Number Line	4		30-Oct
139	Solve Linear Inequalities	4		
140	Simultaneous Equations Graphically	4		
162	Simultaneous Equations Algebraically	5		
141	Fibonacci Sequences	4		06-Nov
163	Geometric Progressions	5		
213	Finding the nth Term of a Quadratic	8 - 9		
179	Iteration - Trial and Improvement	6		
180	Iterative Processes	6		
133	Midpoint of a Line on a Graph	4		13-Nov
159a	Finding the Equation of a Straight Line - $y=mx+c$	5		
159b	Finding the Equation of a Straight Line - Gradient and Coordinates	5		
208	Perpendicular Lines	8 - 9		
211	Simultaneous Equations with a Quadratic	8 - 9		20-Nov
212	Solve Quadratic Inequalities	8 - 9		
160	Roots and Turning Points of Quadratics	5		
161	Cubic and Reciprocal Graphs	5		
178	Product of Three Binomials	6		
193	Algebraic Proof	7		27-Nov
194	Exponential Functions	7		
195a	Trigonometric Graphs - Sine and Cosine	7		
195b	Trigonometric Graphs - Tangent	7		
148	Enlargements	4		04-Dec
181a	Enlargement - Negative Scale Factor - Using Construction Lines	6		
181b	Enlargement - Negative Scale Factor - Using Column Vectors	6		
182	Combinations of Transformations	6		

196a	Transformation of Functions - Polynomial Functions	7		11-Dec
196b	Transformation of Functions - Trigonometric Functions	7		
197	Equation of a Circle	7		
198	Regions	7		
209a	Completing the Square - Basics	8 - 9		18-Dec
209b	Completing the Square - Solving	8 - 9		
209c	Completing the Square - Sketching	8 - 9		
191	Solving Quadratics with the Formula	7		
216	Velocity-Time Graphs	8 - 9		
145	Bisecting an Angle	4		08-Jan
146a	Constructing Perpendiculars - Bisecting a Line	4		
146b	Constructing Perpendiculars - From any Point	4		
147	Draw a Triangle Using Compasses	4		
165	Loci	5		
207a	Surds - Introduction to Surds	8 - 9		15-Jan
207b	Surds - Surd Expressions	8 - 9		
207c	Surds - Rationalising the Denominator	8 - 9		
150a	Pythagoras' Theorem - A Simple Approach	4		22-Jan
150b	Pythagoras' Theorem - An Algebraic Approach	4		
150c	Pythagoras' Theorem - Line on a Graph	4		
217	Pythagoras in 3D	8 - 9		
168	Trigonometry	5		29-Jan
173	Exact Trigonometric Values	5		
201	The Sine Rule	7		
202	The Cosine Rule	7		
203	Area of a Triangle Using Sine	7		
218	Trigonometry in 3D	8 - 9		
149	Tangents, Arcs, Sectors and Segments	4		05-Feb
167	Sectors of a Circle	5		
183	Circle Theorems	6		
184	Proof of Circle Theorems	6		
169	Spheres	5		12-Feb
170	Pyramids	5		
171	Cones	5		
172	Frustums	5		
200	Similarity - Area and Volume	7		19-Feb
166	Congruent triangles	5		
174	Introduction to Vectors	5		
219	Vectors	8 - 9		
151	Simple Tree Diagrams	4		26-Feb
152	Sampling Populations	4		
175	Harder Tree Diagrams	5		
185	Probability using Venn Diagrams	6		
204	And and Or Probability Questions	7		
153	Time Series	4		05-Mar
176	Stratified sampling	5		
186	Cumulative Frequency	6		
187	Boxplots	6		
205	Histograms	7		
210a	Algebraic Fractions - Simplifying	8 - 9		12-Mar
210b	Algebraic Fractions - Solving	8 - 9		
214a	Inverse Functions - Introduction	8 - 9		
214b	Inverse Functions - Harder Questions	8 - 9		
215	Composite Functions	8 - 9		

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There are interactive worksheets for you to complete once you have watched the video so you can test your knowledge. Good luck!