

Year 10

Algebra 1H
 12 hours

Clip	Grade	Title	
33	2	Simplifying - Addition and Subtraction	Lesson 1
34	2	Simplifying - Multiplication	
35	2	Simplifying - Division	Lesson 2
36	2	Function Machines	
93	3	Expanding Brackets	Lesson 3
94	3	Simple Factorisation	
95	3	Substitution	Lesson 4
96	3	Straight Line Graphs	Lesson 5
97	3	The Gradient of a Line	Lesson 6
98	3	Drawing Quadratic Graphs	Lesson 7
99	3	Sketching Functions	Lesson 8
102	3	Generating a Sequence from the n th Term	Lesson 9
103	3	Finding the n th Term	
104	3	Special Sequences	Lesson 10
		Revision	Lesson 11
		Algebra 1H Assessment	Lesson 12

Number 1H
 12 hours

Clip	Grade	Title	
29	2	Introduction to Powers/Indices	Lesson 1
32	2	Rounding to Decimal places	
66	3	Multiplying Decimals	
67	3	Dividing Decimals	
68	3	Four Rules of Negatives	Lesson 2
70	3	Comparing Fractions	
71	3	Adding and Subtracting Fractions	
72	3	Finding a Fraction of an Amount	Lesson 3
73	3	Multiplying Fractions	
74	3	Dividing Fractions	
75	3	BODMAS/BIDMAS	
76	3	Reciprocals	Lesson 4
77	3	Calculator Questions	
78	3	Product of Primes	Lesson 5
79	3	Highest Common Factor (HCF)	
80	3	Lowest Common Multiple (LCM)	
81	3	Squares, Cubes and Roots	
82	3	Working with Indices	Lesson 6
83	3	Standard Form	
84	3	Decimals and Fractions	Lesson 7
85	3	Fractions, Percentages, Decimals	
86	3	Percentage of an Amount (Calc.)	
87	3	Percentage of an Amount (Non-Calc.)	
88	3	Change to a Percentage (Calc.)	Lesson 8
89	3	Change to a Percentage (Non-Calc.)	
90	3	Rounding to Significant Figures	
91	3	Estimating Answers	Lesson 9
92	3	Using Place Value	
131	4	Index Notation	Lesson 10
132	4	Introduction to Bounds	
		Revision	Lesson 11
		Number 1H Assessment	Lesson 12

Year 10

Geometry 1H
 12 hours

Clip	Grade	Title	
48	2	Reflections	Lesson 1
49	2	Rotations	
50	2	Translations	
51	2	Plans and Elevations	Lesson 2
52	2	Perimeters	
53	2	Area of a Rectangle	
54	2	Area of a Triangle	
55	2	Area of a Parallelogram	
56	2	Area of a Trapezium	
112	3	Metric Conversions	Lesson 3
113	3	Problems on Coordinate Axes	
114	3	Surface Area of a Prism	
115	3	Volume of a Cuboid	
116	3	Circle Definitions	Lesson 4
117	3	Area of a Circle	
118	3	Circumference of a Circle	
119	3	Volume of a Prism	Lesson 5
120	3	Angles and Parallel Lines	Lesson 6
121	3	Angles in a Triangle	
122	3	Properties of Special Triangles	
123	3	Angle Sum of Polygons	Lesson 7
124	3	Bearings	
145	4	Bisecting an Angle	Lesson 8
146	4	Constructing Perpendiculars	
147	4	Draw a Triangle Using Compasses	
148	4	Enlargements	Lesson 9
149	4	Tangents, Arcs, Sectors and Segments	
150b and c	4	Pythagoras' Theorem	Lesson 10
		Revision	Lesson 11
		Geometry and Measures 1H Assessment	Lesson 12

Algebra 2H
 11 hours

	Grade	Title	
133	4	Midpoint of a Line on a Graph	Lesson 1
134	4	Expanding and Simplifying Brackets	Lesson 2
135	4	Solving Equations	Lesson 3
135	4	Solving Equations	Lesson 4
136	4	Rearranging Simple Formulae	Lesson 5
137	4	Forming Formulae and Equations	Lesson 6
138	4	Inequalities on a Number Line	Lesson 7
139	4	Solving Linear Inequalities	Lesson 8
140	4	Simultaneous Equations Graphically	Lesson 9
141	4	Fibonacci Sequences	
		Revision	Lesson 10
		Algebra 2H Assessment	Lesson 11

Year 10

Probability 1H
 11 hours

Clip	Grade	Title	
57	2	Frequency Trees	Lesson 1
58	2	Listing Outcomes	
59	2	Calculating Probabilities	
60	2	Mutually Exclusive Events	Lesson 2
61	2	Two-Way Tables	
62	2	Averages and the Range	Lesson 3
63	2	Data - Discrete and Continuous	
64	2	Vertical Line Charts	Lesson 4
65	2	Frequency Tables and Diagrams	
125	3	Experimental Probabilities	
126	3	Possibility Spaces	
127	3	Venn Diagrams	Lesson 5
128	3	Pie Charts	Lesson 6
129	3	Scatter Diagrams	
130	3	Averages from a table	Lesson 7
151	4	Simple Tree Diagrams	Lesson 8
152	4	Sampling Populations	Lesson 9
153	4	Time Series	
		Revision	Lesson 10
		Probability and Statistics 1H Assessment	Lesson 11

Ratio H
 12 hours

Clip	Grade	Title	
38	2	Introduction to Ratio	Lesson 1
39	2	Using Ratio for Recipe Questions	
41	2	Value for Money	
42	2	Introduction to Proportion	Lesson 2
105	3	Exchanging Money	
106	3	Sharing using Ratio	
107	3	Ratios, Fractions and Graphs	Lesson 3
108	3	Increase/Decrease by a Percentage	
109	3	Percentage Change	
110	3	Reverse Percentage Problems	Lesson 4
111	3	Simple Interest	Lesson 5
142	4	Compound Units	Lesson 6
143	4	Distance-Time Graphs	Lesson 7
144	4	Similar Shapes	
164	5	Compound Interest and Depreciation	Lesson 8
199	7	Direct and Inverse Proportion	Lesson 9
199	7	Direct and Inverse Proportion	Lesson 10
		Revision	Lesson 11
		Ratio H Assessment	Lesson 12

Algebra 3H
 11 hours

Clip	Grade	Title	
157	5	Factorising and Solving Quadratics	Lesson 1
157	5	Factorising and Solving Quadratics	Lesson 2
158	5	The Difference of Two Squares	
159	5	Finding the Equation of a Straight Line	Lesson 3
160	5	Roots and Turning Points of Quadratics	Lesson 4
161	5	Cubic and Reciprocal Graphs	Lesson 5
162	5	Simultaneous Equations Algebraically	Lesson 6
162	5	Simultaneous Equations Algebraically	Lesson 7
162	5	Simultaneous Equations Algebraically	Lesson 8
163	5	Geometric Progressions	Lesson 9
		Revision	Lesson 10
		Algebra 3H Assessment	Lesson 11

Year 10

Geometry 2H

14 hours

Clip	Grade	Title	
165	5	Loci	Lesson 1
166	5	Congruent triangles	Lesson 2
166	5	Congruent triangles	Lesson 3
167	5	Sectors of a Circle	Lesson 4
168	5	Trigonometry	Lesson 5
168	5	Trigonometry	Lesson 6
168	5	Trigonometry	Lesson 7
169	5	Spheres	Lesson 8
169	5	Spheres	Lesson 9
170	5	Pyramids	Lesson 10
171	5	Cones	Lesson 11
172	5	Frustums	Lesson 12
		Revision	Lesson 13
		Geometry 2H Assessment	Lesson 14

Probability 2H

13 hours

Clip	Grade	Title	
175	5	Harder Tree Diagrams	Lesson 1
175	5	Harder Tree Diagrams	Lesson 2
176	5	Stratified sampling	Lesson 3
185	6	Probability using Venn Diagrams	Lesson 4
186	6	Cumulative Frequency	Lesson 5
186	6	Cumulative Frequency	Lesson 6
187	6	Boxplots	Lesson 7
204	7	And and Or Probability Questions	Lesson 8
204	7	And and Or Probability Questions	Lesson 9
205	7	Histograms	Lesson 10
205	7	Histograms	Lesson 11
		Revision	Lesson 12
		Probability 2H Assessment	Lesson 13

Year 11

Algebra 4H
 12 hours

Clip	Grade	Title	
178	6	Product of Three Binomials	Lesson 1
179	6	Iteration - Trial and Improvement	Lesson 2
180	6	Iterative Processes	Lesson 3
180	6	Iterative Processes	Lesson 4
190	7	Rearranging Difficult Formulae	Lesson 5
190	7	Rearranging Difficult Formulae	Lesson 6
191	7	Solving Quadratics with the Formula	Lesson 7
191	7	Solving Quadratics with the Formula	Lesson 8
192	7	Factorising Hard Quadratics	Lesson 9
192	7	Factorising Hard Quadratics	Lesson 10
		Revision	Lesson 11
		Algebra 4H Assessment	Lesson 12

Geometry 3H
 12 hours

Clip	Grade	Title	
173	5	Exact Trigonometric Values	Lesson 1
173	5	Exact Trigonometric Values	Lesson 2
174	5	Introduction to Vectors	Lesson 3
181	6	Enlargement - Negative Scale Factor	Lesson 4
182	6	Combinations of Transformations	Lesson 5
183	6	Circle Theorems	Lesson 6
183	6	Circle Theorems	Lesson 7
184	6	Proof of Circle Theorems	Lesson 8
200	7	Similarity - Area and Volume	Lesson 9
200	7	Similarity - Area and Volume	Lesson 10
		Revision	Lesson 11
		Geometry 3H Assessment	Lesson 12

Number 2H
 13 hours

Clip	Grade	Title	
154	5	Negative Indices	Lesson 1
155	5	Error Intervals	Lesson 2
156	5	Mathematical Reasoning	Lesson 3
177	6	Recurring Decimals to Fractions	Lesson 4
188	7	Fractional Indices	Lesson 5
189	7	Recurring Decimals - Proof	Lesson 6
206	8/9	Upper and Lower Bounds	Lesson 7
206	8/9	Upper and Lower Bounds	Lesson 8
207	8/9	Surds	Lesson 9
207	8/9	Surds	Lesson 10
207	8/9	Surds	Lesson 11
		Revision	Lesson 12
		Number 2H Assessment	Lesson 13

Algebra 5H
 12 hours

Clip	Grade	Title	
193	7	Algebraic Proof	Lesson 1
194	7	Exponential Functions	Lesson 2
194	7	Exponential Functions	Lesson 3
195	7	Trigonometric Graphs	Lesson 4
195	7	Trigonometric Graphs	Lesson 5
196	7	Transformation of Functions	Lesson 6
196	7	Transformation of Functions	Lesson 7
197	7	Equation of a Circle	Lesson 8
198	7	Regions	Lesson 9
198	7	Regions	Lesson 10
		Revision	Lesson 11
		Algebra 5H Assessment	Lesson 12

Year 11

Geometry 4H
 12 hours

Clip	Grade	Title	
201	7	The Sine Rule	Lesson 1
202	7	The Cosine Rule	Lesson 2
202	7	The Cosine Rule	Lesson 3
203	7	Area of a Triangle Using Sine	Lesson 4
217	8/9	Pythagoras in 3D	Lesson 5
218	8/9	Trigonometry in 3D	Lesson 6
218	8/9	Trigonometry in 3D	Lesson 7
219	8/9	Vectors	Lesson 8
219	8/9	Vectors	Lesson 9
219	8/9	Vectors	Lesson 10
		Revision	Lesson 11
		Geometry 4H Assessment	Lesson 12

Algebra 6H
 19 hours

Clip	Grade	Title	
208	8/9	Perpendicular Lines	Lesson 1
208	8/9	Perpendicular Lines	Lesson 2
209	8/9	Completing the Square	Lesson 3
209	8/9	Completing the Square	Lesson 4
210	8/9	Algebraic Fractions	Lesson 5
210	8/9	Algebraic Fractions	Lesson 6
211	8/9	Simultaneous Equations with a Quadratic	Lesson 7
212	8/9	Solve Quadratic Inequalities	Lesson 8
212	8/9	Solve Quadratic Inequalities	Lesson 9
213	8/9	Finding the n th Term of a Quadratic	Lesson 10
214	8/9	Inverse Functions	Lesson 11
214	8/9	Inverse Functions	Lesson 12
215	8/9	Composite Functions	Lesson 13
215	8/9	Composite Functions	Lesson 14
216	8/9	Velocity-Time Graphs	Lesson 15
216	8/9	Velocity-Time Graphs	Lesson 16
216	8/9	Velocity-Time Graphs	Lesson 17
		Revision	Lesson 18
		Algebra 6H Assessment	Lesson 19