

Year 10

Algebra 1F
 14 hours

Clip	Grade	Title	
7	1	Algebraic conventions	Lesson 1
8	1	Coordinates	
33	2	Simplifying - Addition and Subtraction	
34	2	Simplifying - Multiplication	Lesson 2
35	2	Simplifying - Division	
36	2	Function Machines	Lesson 3
37	2	Generating a Sequence - Term to Term	
93	3	Expanding Brackets	Lesson 4
94	3	Simple Factorisation	
95	3	Substitution	Lesson 5
96	3	Straight Line Graphs	Lesson 6
96	3	Straight Line Graphs	Lesson 7
97	3	The Gradient of a Line	
98	3	Drawing Quadratic Graphs	Lesson 8
99	3	Sketching Functions	Lesson 9
100	3	Solving Equations using Flowcharts	Lesson 10
101	3	Subject of a Formula using Flowcharts	
102	3	Generating a Sequence from the n th Term	Lesson 11
103	3	Finding the n th Term	
104	3	Special Sequences	Lesson 12
		Revision	Lesson 13
		Algebra 1F Assessment	Lesson 14

Number 1F
 12 hours

Clip	Grade	Title	
1	1	Place Value	Lesson 1
2	1	Ordering Integers	
3	1	Ordering Decimals	
4	1	Reading Scales	Lesson 2
5	1	Simple Mathematical Notation	
6	1	Interpreting Real-Life Tables	
17	2	Adding Integers and Decimals	Lesson 3
18	2	Subtracting Integers and Decimals	
19	2	Multiplying Integers	Lesson 4
20	2	Dividing Integers	Lesson 5
21	2	Inverse Operations	Lesson 6
22	2	Money Questions	
23	2	Negatives in Real Life	Lesson 7
24	2	Introduction to Fractions	
25	2	Equivalent Fractions	Lesson 8
26	2	Simplifying Fractions	
27	2	Half-Way Values	
28	2	Factors, Multiples and Primes	Lesson 9
29	2	Introduction to Powers/Indices	
30	2	Multiplying and Dividing by Powers of 10	
31	2	Rounding to the Nearest 10, 100, 1000	Lesson 10
32	2	Rounding to Decimal places	
		Revision	Lesson 11
		Number 1F Assessment	Lesson 12

Year 10

Geometry 1F
 12 hours

Clip	Grade	Title	
9	1	Simple Geometric Definitions	Lesson 1
10	1	Polygons	
11	1	Symmetries	
12	1	Tessellations and Congruency	
13	1	Names of Angles	
43	2	Properties of Solids	Lesson 2
44	2	Nets	
45	2	Angles on a Line and at a Point	Lesson 3
46	2	Measuring and drawing Angles	
47	2	Drawing a Triangle Using a Protractor	Lesson 4
48	2	Reflections	
49	2	Rotations	Lesson 5
50	2	Translations	
51	2	Plans and Elevations	Lesson 6
52	2	Perimeters	
53	2	Area of a Rectangle	Lesson 7
54	2	Area of a Triangle	
55	2	Area of a Parallelogram	Lesson 8
56	2	Area of a Trapezium	
112	3	Metric Conversions	Lesson 9
113	3	Problems on Coordinate Axes	Lesson 10
114	3	Surface Area of a Prism	Lesson 11
115	3	Volume of a Cuboid	
116	3	Circle Definitions	
		Revision	Lesson 12
		Geometry and Measures 1F Assessment	Lesson 13

Probability 1F
 12 hours

Clip	Grade	Title	
14	1	The Probability Scale	Lesson 1
15	1	Tally Charts and Bar Charts	
16	1	Pictograms	
57	2	Frequency Trees	Lesson 2
58	2	Listing Outcomes	
59	2	Calculating Probabilities	
60	2	Mutually Exclusive Events	Lesson 3
61	2	Two-Way Tables	
62	2	Averages and the Range	Lesson 4
63	2	Data - Discrete and Continuous	
64	2	Vertical Line Charts	Lesson 5
65	2	Frequency Tables and Diagrams	
125	3	Experimental Probabilities	Lesson 6
126	3	Possibility Spaces	
127	3	Venn Diagrams	Lesson 7
128	3	Pie Charts	Lesson 8
129	3	Scatter Diagrams	Lesson 9
130	3	Averages from a table	Lesson 10
		Revision	Lesson 11
		Probability and Statistics 1F Assessment	Lesson 12

Year 10

Number 2F
 12 hours

Clip	Grade	Title	
66	3	Multiplying Decimals	Lesson 1
67	3	Dividing Decimals	Lesson 2
68	3	Four Rules of Negatives	Lesson 3
69	3	Listing Strategies	Lesson 4
70	3	Comparing Fractions	
71	3	Adding and Subtracting Fractions	Lesson 5
72	3	Finding a Fraction of an Amount	Lesson 6
73	3	Multiplying Fractions	Lesson 7
74	3	Dividing Fractions	Lesson 8
75	3	BODMAS/BIDMAS	Lesson 9
76	3	Reciprocals	Lesson 10
77	3	Calculator Questions	
		Revision	Lesson 11
		Number 2F Assessment	Lesson 12

Ratio 1F
 10 hours

Clip	Grade	Title	
38	2	Introduction to Ratio	Lesson 1
39	2	Using Ratio for Recipe Questions	Lesson 2
40	2	Introduction to Percentages	Lesson 3
41	2	Value for Money	Lesson 4
42	2	Introduction to Proportion	Lesson 5
105	3	Exchanging Money	Lesson 6
106	3	Sharing using Ratio	Lesson 7
107	3	Ratios, Fractions and Graphs	Lesson 8
		Revision	Lesson 9
		Ratio 1F Assessment	Lesson 10

Geometry 2F
 12 hours

Clip	Grade	Title	
117	3	Area of a Circle	Lesson 1
118	3	Circumference of a Circle	
119	3	Volume of a Prism	Lesson 2
120	3	Angles and Parallel Lines	Lesson 3
121	3	Angles in a Triangle	
122	3	Properties of Special Triangles	Lesson 4
123	3	Angle Sum of Polygons	
124	3	Bearings	Lesson 5
145	4	Bisecting an Angle	Lesson 6
146	4	Constructing Perpendiculars	
147	4	Draw a Triangle Using Compasses	Lesson 7
148	4	Enlargements	Lesson 8
149	4	Tangents, Arcs, Sectors and Segments	Lesson 9
150	4	Pythagoras' Theorem	Lesson 10
		Revision	Lesson 11
		Geometry 2F Assessment	Lesson 12

Algebra 2F
 12 hours

Clip	Grade	Title	
133	4	Midpoint of a Line on a Graph	Lesson 1
134	4	Expanding and Simplifying Brackets	Lesson 2
134	4	Expanding and Simplifying Brackets	Lesson 3
135	4	Solving Equations	Lesson 4
135	4	Solving Equations	Lesson 5
136	4	Rearranging Simple Formulae	Lesson 6
137	4	Forming Formulae and Equations	Lesson 7
138	4	Inequalities on a Number Line	Lesson 8
139	4	Solving Linear Inequalities	Lesson 9
140	4	Simultaneous Equations Graphically	Lesson 10
141	4	Fibonacci Sequences	
		Revision	Lesson 11
		Algebra 2F Assessment	Lesson 12

Year 11

Number 3F
13 hours

Clip	Grade	Title	
78	3	Product of Primes	Lesson 1
79	3	Highest Common Factor (HCF)	
80	3	Lowest Common Multiple (LCM)	
81	3	Squares, Cubes and Roots	Lesson 2
82	3	Working with Indices	
83	3	Standard Form	Lesson 3
84	3	Decimals and Fractions	Lesson 4
85	3	Fractions, Percentages, Decimals	
86	3	Percentage of an Amount (Calc.)	Lesson 5
87	3	Percentage of an Amount (Non-Calc.)	
88	3	Change to a Percentage (Calc.)	Lesson 6
89	3	Change to a Percentage (Non-Calc.)	
90	3	Rounding to Significant Figures	Lesson 7
91	3	Estimating Answers	Lesson 8
92	3	Using Place Value	
131	4	Index Notation	Lesson 9
132	4	Introduction to Bounds	
154	5	Negative Indices	Lesson 10
155	5	Error Intervals	Lesson 11
156	5	Mathematical Reasoning	
		Revision	Lesson 12
		Number 3F Assessment	Lesson 13

Algebra 3F
12 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
161	5	Cubic and Reciprocal Graphs	Lesson 6
162	5	Simultaneous Equations Algebraically	Lesson 7
162	5	Simultaneous Equations Algebraically	Lesson 8
162	5	Simultaneous Equations Algebraically	Lesson 9
163	5	Geometric Progressions	Lesson 10
		Revision	Lesson 11
		Algebra 3F Assessment	Lesson 12

Ratio 2F
11 hours

Clip	Grade	Title	
108	3	Increase/Decrease by a Percentage	Lesson 1
109	3	Percentage Change	Lesson 2
110	3	Reverse Percentage Problems	Lesson 3
111	3	Simple Interest	Lesson 4
142	4	Compound Units	Lesson 5
143	4	Distance-Time Graphs	Lesson 6
144	4	Similar Shapes	Lesson 7
164	5	Compound Interest and Depreciation	Lesson 8
		Revision	Lesson 9
		Ratio 2F Assessment	Lesson 10

Year 11

Probability 2F

7 hours

151	4	Simple Tree Diagrams	Lesson 1
152	4	Sampling Populations	Lesson 2
153	4	Time Series	Lesson 3
175	5	Harder Tree Diagrams	Lesson 4
176	5	Stratified sampling	Lesson 5
		Revision	Lesson 6
		Probability 2F Assessment	Lesson 7

Geometry 3F

17 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
167	5	Sectors of a Circle	Lesson 5
168	5	Trigonometry	Lesson 6
168	5	Trigonometry	Lesson 7
168	5	Trigonometry	Lesson 8
169	5	Spheres	Lesson 9
169	5	Spheres	Lesson 10
170	5	Pyramids	Lesson 11
171	5	Cones	Lesson 12
172	5	Frustums	Lesson 13
173	5	Exact Trigonometric Values	Lesson 14
174	5	Introduction to Vectors	Lesson 15
		Revision	Lesson 16
		Geometry 3F Assessment	Lesson 17