It is not possible for <u>anyone</u> to accurately predict which topics will be on Paper 3 by analysing the first 2 papers. However, we can give some revision guidance.

Topics in large bold type are 'strongly advised revision'.

Topics in a normal font are 'advised revision'.

Topics in a very small font can probably be left alone.

Remember:
One Minute Maths is your friend for quick

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
1	Place Value	Number	1		
2	Ordering Integers	Number	1		
3	Ordering Decimals	Number	1		
4	Reading Scales	Number	1		
5	Simple Mathematical Notation	Number	1		
6a	Interpreting Real-Life Tables - Time	Number	1		
6b	Interpreting Real-Life Tables - Timetables and Distance Tables	Number	1		
7	Introduction to Algebraic Conventions	Algebra	1		
8	Coordinates	Algebra	1		
9	Simple Geometric Definitions	Geometry	1		
10	Polygons	Geometry	1		
11	Symmetries	Geometry	1		
12a	Tessellations and Congruency - Tessellations	Geometry	1		
12b	Tessellations and Congruency - Congruent Shapes	Geometry	1		
13	Names of Angles	Geometry	1		
14	The Probability Scale	Probability	1		
15	Tally Charts and Bar Charts	Probability	1		
16	Pictograms	Probability	1		
17	Adding Integers and Decimals	Number	2		
18	Subtracting Integers and Decimals	Number	2		
19	Multiplying Integers	Number	2	Qu 23	
20	Dividing Integers	Number	2		
21	Inverse Operations	Number	2		
22a	Money Questions - Non-Calculator Questions	Number	2		
22b	Money Questions - Calculator Questions	Number	2		
23	Negatives in Real Life	Number	2		

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
24	Introduction to Fractions	Number	2		
25	Equivalent Fractions	Number	2		
26	Simplifying Fractions	Number	2	Qu 6	
27	Half-Way Values	Number	2		
28	Factors, Multiples and Primes	Number	2		
29	Introduction to Powers/Indices	Number	2	Qu 24	
30	Multiplying and Dividing by Powers of 10	Number	2		
31	Rounding to the Nearest 10, 100, 1000	Number	2		
32	Rounding to Decimal places	Number	2		
33	Simplifying - Addition and Subtraction	Algebra	2	Qu 3	
34	Simplifying - Multiplication	Algebra	2	Qu 3	
35	Simplifying - Division	Algebra	2		
36	Function Machines	Algebra	2		
37	Generating a Sequence - Term to Term	Algebra	2	Qu 20	
38	Introduction to Ratio	Ratio	2	Qu 14, Qu 16	Qu 3, Qu 8
39	Using Ratio for Recipe Questions	Ratio	2		
40	Introduction to Percentages	Ratio	2		
41	Value for Money	Ratio	2		
42	Introduction to Proportion	Ratio	2		
43	Properties of Solids	Geometry	2		
44	Nets	Geometry	2		
45	Angles on a Line and at a Point	Geometry	2		
46a	Measuring and drawing Angles - Measuring	Geometry	2		
46b	Measuring and drawing Angles - Drawing	Geometry	2		
47	Drawing a Triangle Using a Protractor	Geometry	2		
48	Reflections	Geometry	2		
49	Rotations	Geometry	2		
50	Translations	Geometry	2		
51	Plans and Elevations	Geometry	2		
52	Perimeters	Geometry	2	Qu 11	Qu 19
53	Area of a Rectangle	Geometry	2	Qu 18	

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
54	Area of a Triangle	Geometry	2		
55	Area of a Parallelogram	Geometry	2		
56	Area of a Trapezium	Geometry	2		
57	Frequency Trees	Probability	2		
58	Listing Outcomes	Probability	2		
59	Calculating Probabilities	Probability	2		
60	Mutually Exclusive Events	Probability	2	Qu 15	
61	Two-Way Tables	Probability	2		
62	Averages and the Range	Probability	2		
63	Data - Discrete and Continuous	Probability	2		
64	Vertical Line Charts	Probability	2		
65	Frequency Tables and Diagrams	Probability	2		
66	Multiplying Decimals	Number	3		
67	Dividing Decimals	Number	3		
68a	Four Rules of Negatives - Adding and Subtracting	Number	3		
68b	Four Rules of Negatives - Multiplying and Dividing	Number	3		
69	Listing Strategies	Number	3		
70	Comparing Fractions	Number	3		
71a	Adding and Subtracting Fractions - A Standard Method	Number	3	Qu 9	
71b	Adding and Subtracting Fractions - An Alternative Method	Number	3	Qu 9	
72	Finding a Fraction of an Amount	Number	3	Qu 23	
73	Multiplying Fractions	Number	3	Qu 23	
74	Dividing Fractions	Number	3		
75	BODMAS/BIDMAS	Number	3	Qu 3	
76	Reciprocals	Number	3		
77	Calculator Questions	Number	3		Qu 20
78	Product of Primes	Number	3		
79	Highest Common Factor (HCF)	Number	3		
80	Lowest Common Multiple (LCM)	Number	3		
81	Squares, Cubes and Roots	Number	3	Qu 1	Qu 5
82	Working with Indices	Number	3		

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
83	Standard Form	Number	3	Qu 12	Qu 2
84	Decimals and Fractions	Number	3		
85	Fractions, Percentages, Decimals	Number	3		
86	**Percentage of an Amount (Calc.)**	**Number**	**3**		
87	Percentage of an Amount (Non-Calc.)	Number	3		
88	**Change to a Percentage (Calc.)**	**Number**	**3**		Qu 4, Qu 6
89	Change to a Percentage (Non-Calc.)	Number	3		
90	Rounding to Significant Figures	Number	3		Qu 20
91	Estimating Answers	Number	3	Qu 4	
92	Using Place Value	Number	3		
93	**Expanding Brackets**	**Algebra**	**3**		
94	**Simple Factorisation**	**Algebra**	**3**		
95	Substitution	Algebra	3		Qu 20
96	**Straight Line Graphs**	**Algebra**	**3**		
97	The Gradient of a Line	Algebra	3		Qu 12
98	**Drawing Quadratic Graphs**	**Algebra**	**3**		
99	**Sketching Functions**	**Algebra**	**3**		
100	Solving Equations using Flowcharts	Algebra	3		
101	Subject of a Formula using Flowcharts	Algebra	3		
102	**Generating a Sequence from the nth Term**	**Algebra**	**3**		
103	**Finding the nth Term**	**Algebra**	**3**		
104	Special Sequences	Algebra	3		Qu 5
105	Exchanging Money	Ratio	3		
106	**Sharing using Ratio**	**Ratio**	**3**		
107	Ratios, Fractions and Graphs	Ratio	3	Qu 26	
108	**Increase/Decrease by a Percentage**	**Ratio**	**3**		
109	**Percentage Change**	**Ratio**	**3**		Qu 6
110	**Reverse Percentage Problems**	**Ratio**	**3**		
111	Simple Interest	Ratio	3		
112	Metric conversions	Geometry	3	Qu 13	

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
113	Problems on Coordinate Axes	Geometry	3		
114a	Surface Area of a Prism - Cuboids	Geometry	3		
114b	Surface Area of a Prism - Triangular Prisms	Geometry	3		
115	Volume of a Cuboid	Geometry	3		Qu 24
116	Circle Definitions	Geometry	3		
117	Area of a Circle	Geometry	3	Qu 18	
118	**Circumference of a Circle**	**Geometry**	**3**		
119	Volume of a Prism	Geometry	3		Qu 16
120	**Angles and Parallel Lines**	**Geometry**	**3**		
121	**Angles in a Triangle**	**Geometry**	**3**		
122	**Properties of Special Triangles**	**Geometry**	**3**		
123	**Angle Sum of Polygons**	**Geometry**	**3**		
124	**Bearings**	**Geometry**	**3**		
125	Experimental Probabilities	Probability	3	Qu 8	Qu 7
126	Possibility Spaces	Probability	3		
127a	**Venn Diagrams - Introduction**	**Probability**	**3**		
127b	Venn Diagrams - Notation	Probability	3	Qu 22	
128a	**Representing Data - Pie Charts**	**Probability**	**3**		
128b	Representing Data - Stem and Leaf Diagrams	Probability	3		
129	**Scatter Diagrams**	**Probability**	**3**		
130a	**Averages from a table - Basics**	**Probability**	**3**		
130b	**Averages from a table - Estimate for the Mean**	**Probability**	**3**		
131	**Index Notation**	**Number**	**4**		
132	Introduction to Bounds	Number	4		Qu 24
133	Midpoint of a Line on a Graph	Algebra	4	Qu 7	
134a	**Expanding and Simplifying Brackets - Single Set of Brackets**	**Algebra**	**4**		
134b	**Expanding and Simplifying Brackets - Double Set of Brackets**	**Algebra**	**4**		
135a	**Solving Equations - Balancing** 135a or 135b, not both.	**Algebra**	**4**		
135b	**Solving Equations - Float & Ping** 135a or 135b, not both.	**Algebra**	**4**		

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
136	**Rearranging Simple Formulae**	**Algebra**	4		
137	**Forming Formulae and Equations**	**Algebra**	4		
138	**Inequalities on a Number Line**	**Algebra**	4		
139	Solve Linear Inequalities	Algebra	4	Qu 5	
140	**Simultaneous Equations Graphically**	**Algebra**	4		
141	Fibonacci Sequences	Algebra	4		
142	Compound Units	Ratio	4		Qu 16
143	**Distance-Time Graphs**	**Ratio**	4		
144	**Similar Shapes**	**Ratio**	4		
145	**Bisecting an Angle**	**Geometry**	4		
146a	**Constructing Perpendiculars - Bisecting a Line**	**Geometry**	4		
146b	**Constructing Perpendiculars - From any Point**	**Geometry**	4		
147	**Draw a Triangle Using Compasses**	**Geometry**	4		
148	**Enlargements**	**Geometry**	4		
149	Tangents, Arcs, Sectors and Segments	Geometry	4		Qu 1
150a	**Pythagoras' Theorem - A Simple Approach** 150a or 150b, not both.	**Geometry**	4		
150b	**Pythagoras' Theorem - An Algebraic Approach** 150a or 150b, not both.	**Geometry**	4		
150c	Pythagoras' Theorem - Line on a Graph	Geometry	4		
151	Simple Tree Diagrams	Probability	4		Qu 11
152	Sampling Populations	Probability	4		
153	Time Series	Probability	4		
154	Negative Indices	Number	5	Qu 24	
155	Error Intervals	Number	5		Qu 9
156	Mathematical Reasoning	Number	5		
157	**Factorising and Solving Quadratics**	**Algebra**	5		
158	**The Difference of Two Squares**	**Algebra**	5		
159a	**Finding the Equation of a Straight Line - y=mx+c**	**Algebra**	5		
159b	**Finding the Equation of a Straight Line - Gradient and Coordina**	**Algebra**	5		
160	**Roots and Turning Points of Quadratics**	**Algebra**	5		

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
161	Cubic and Reciprocal Graphs	Algebra	5		
162	Simultaneous Equations Algebraically	Algebra	5	Qu 20	
163	Geometric Progressions	Algebra	5		Qu 5
164	Compound Interest and Depreciation	Ratio	5		
165	Loci	Geometry	5		Qu 14
166	Congruent triangles	Geometry	5		
167	Sectors of a Circle	Geometry	5		
168	Trigonometry	Geometry	5		Qu 19
169	Spheres	Geometry	5		Qu 10
170	Pyramids	Geometry	5		
171	Cones	Geometry	5		
172	Frustums	Geometry	5		
173	Exact Trigonometric Values	Geometry	5	Qu 30	
174	Introduction to Vectors	Geometry	5	Qu 2	
175	Harder Tree Diagrams	Probability	5		
176	Stratified sampling	Probability	5		
177	Recurring Decimals to Fractions	Number	6		
178	Product of Three Binomials	Algebra	6		
179	Iteration - Trial and Improvement	Algebra	6		
180	Iterative Processes	Algebra	6		
181a	Enlargement - Negative Scale Factor - Using Construction Lines	Geometry	6	Qu 21	
181b	Enlargement - Negative Scale Factor - Using Column Vectors	Geometry	6	Qu 21	
182	Combinations of Transformations	Geometry	6		
183	Circle Theorems	Geometry	6		
184	Proof of Circle Theorems	Geometry	6		
185	Probability using Venn Diagrams	Probability	6		Qu 25
186	Cumulative Frequency	Probability	6	Qu 19	
187	Boxplots	Probability	6	Qu 19	Qu 15
188	Fractional Indices	Number	7	Qu 24	
189	Recurring Decimals - Proof	Number	7		Qu 27

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
190	Rearranging difficult Formulae	Algebra	7		
191	Solving Quadratics with the Formula	Algebra	7	Qu 27	
192	Factorising Hard Quadratics	Algebra	7		
193	Algebraic Proof	Algebra	7		
194	Exponential Functions	Algebra	7		Qu 18
195a	Trigonometric Graphs - Sine and Cosine	Algebra	7	Qu 25	
195b	Trigonometric Graphs - Tangent	Algebra	7		
196a	Transformation of Functions - Polynomial Functions	Algebra	7	Qu 29	
196b	Transformation of Functions - Trigonometric Functions	Algebra	7		
197	Equation of a Circle	Algebra	7		Qu 22
198	Regions	Algebra	7		
199	Direct and Inverse Proportion	Ratio	7	Qu 10	
200	Similarity - Area and Volume	Geometry	7		Qu 23
201	The Sine Rule	Geometry	7	Qu 17	
202	The Cosine Rule	Geometry	7		Qu 21
203	Area of a Triangle Using Sine	Geometry	7		
204	And and Or Probability Questions	Probability	7		
205	Histograms	Probability	7		
206	Upper and Lower Bounds	Number	8 - 9		
207a	Surds - Introduction to Surds	Number	8 - 9	Qu 28	
207b	Surds - Surd Expressions	Number	8 - 9	Qu 28	
207c	Surds - Rationalising the Denominator	Number	8 - 9		
208	Perpendicular Lines	Algebra	8 - 9		
209a	Completing the Square - Basics	Algebra	8 - 9		
209b	Completing the Square - Solving	Algebra	8 - 9		
209c	Completing the Square - Sketching	Algebra	8 - 9		
210a	Algebraic Fractions - Simplifying	Algebra	8 - 9		Qu 13
210b	Algebraic Fractions - Solving	Algebra	8 - 9		
211	Simultaneous Equations with a Quadratic	Algebra	8 - 9		Qu26

Clip	Title	Topic	Grade	Did it appear on Paper 1?	Did it appear on Paper 2?
212	Solve Quadratic Inequalites	Algebra	8 - 9		
213	Finding the nth Term of a Quadratic	Algebra	8 - 9		
214a	Inverse Functions - Introduction	Algebra	8 - 9		Qu 28
214b	Inverse Functions - Harder Questions	Algebra	8 - 9		Qu 28
215	Composite Functions	Algebra	8 - 9		Qu 28
216a	Velocity-Time Graphs	Algebra	8 - 9		
216b	Rate of Change	Algebra	8 - 9		Qu 17
217	Pythagoras in 3D	Geometry	8 - 9		
218	Trigonometry in 3D	Geometry	8 - 9		
219	Vectors	Geometry	8 - 9		