

#### Number

Topics	Clip Number	R	Α	G
Calculating with roots and fractional indices	108, 109, 110			
Converting recurring decimals to fractions	53, 54			
Surds: Definition and estimating	111, 112			
Surds: Simplifying, multiplying and dividing	113, 114, 115			
Surds: Expanding brackets	116, 117			
Surds: Rationalising the denominator	118, 119			
Upper and lower bounds	137, 138, 139			
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Best buys	770			

# Algebra

Topics	Clip Number	R	Α	G
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Substitution: Equations of motion	788, 789			
Substitution: Important formulae	279			
Expanding triple brackets	166			
Expressions with algebraic fractions	172			
Linear equations with algebraic fractions	187			
Factorising quadratic expressions: ax <sup>2</sup> +bx+c	225, 226, 227, 228			
Quadratic expressions: Algebraic fractions	229			
Quadratic expressions: Completing the square	235, 236, 237			
Quadratic equations: Factorising	231, 232, 233			
Quadratic equations: Quadratic formula	241, 242			
Quadratic equations: Completing the square	238, 239			
Quadratic equations: Algebraic fractions	244			
Quadratic equations in context	245			
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Manipulating powers	790, 791, 792, 793, 794, 795			
Exponential equations	796, 797, 798, 799			
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Exponential decay problems	808, 809, 810, 811			
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Graph transformations	307, 308, 309, 310, 311, 312, 313			



### **Algebra (continued)**

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Quadratic inequalities	277			
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Iteration and numerical methods	322, 323			
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## Ratio, proportion and rates of change

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Congruence proofs	684, 685, 686, 687, 688,			
Congruence proofs	689, 690			
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Circle theorems: Angles inside a circle	593, 594, 595, 596, 597			
Circle theorems: Tangents and chords	598, 599, 600, 601			
Circle theorems multi-step	603, 604, 605, 606			
Prove circle theorems	816, 817, 818, 819, 820			
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	849, 850, 851, 852, 853			
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	859, 860, 861, 862, 863			
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Sine rule	521, 522, 523, 524, 525			
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## **Probability**

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#### **Statistics**

Topics	Clip Number	R	Α	G
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