

## Number

	Topics	Clip Number	R	A	G
Fractions	Fraction of an amount	77			
	Fraction arithmetic	65 – 70, 80			
	Recurring decimal to fraction	53, 54			
Properties	Product of prime factors	29, 30, 32, 35			
	Negative and fractional indices	104 – 110			
Powers and roots	Simplification of surds	113 – 119			
Standard form	Conversion	122, 123, 124			
	Calculation	125, 126, 127			

## Algebra

	Topics	Clip Number	R	A	G
Manipulation	Simplification	156 – 159, 173, 174, 175			
	Expansion of brackets	160 – 166			
	Algebraic fractions	159, 170, 172, 229			
Equations and inequalities	Linear inequality	265 – 272			
	Form an equation	176			
	Quadratic equation	230 – 234, 238 – 242, 244, 245			
	Equation of a tangent to a circle	320			
Graphs	Quadratic graph	251 – 257, 260			
	Speed-time graph	880 – 886			
	Gradients of parallel and perpendicular lines	214, 215			
	Gradient of a curve	887 – 890			

## Ratio, proportion, and rates of change

	Topics	Clip Number	R	A	G
Percentages	Percentage of an amount	84, 85, 86			
Ratio	Write as a ratio	328, 329			
	Use of ratio	335 – 338			
	Share in a ratio	332 – 335			
	Ratio to fraction	330			
Proportion	Equations of proportion	343 – 347			
Compound Measures	Density	725 – 733			

## Geometry and measures

	Topics	Clip Number	R	A	G
Angles	Angles in a polygon	560 – 565			
Length, area and volume	Area of a triangle	557, 558			
	Volume of a cube	568, 569, 583			
	Surface area of a cuboid	584, 589, 590			
	Area of a sector	546, 547			
Pythagoras's Theorem and Trigonometry	Pythagoras's Theorem	497 – 507			
	Exact trigonometric values	845			
Vectors	Vector geometry	628 – 636			

## Probability

	Topics	Clip Number	R	A	G
Probability	Probability	351 – 359			
	Independent combined events	360 – 363			

## Statistics

	Topics	Clip Number	R	A	G
Diagrams	Cumulative frequency graph	437 – 440			
Measures	Mean	405 – 408, 417 – 421			
	Inter-quartile range	412			