

Please download and work through the checklist, ticking boxes that apply to your knowledge and understanding and email it back to me. You can copy and paste this tick:

Mastered – I am confident I can answer questions on this	٢
OK, but need some more help	۲
Not a clue!	8
Haven't done this yet (or have forgotten if I have!)	

Expressions and Formulae

Торіс	0	(8
Significant figures and Rounding			
Volume - Cube/Cuboid, including working backwards			
Volume - Cylinder			
Volume - Sphere			
Volume - Cone			
Volume - Pyramid			
Algebra - Multiplying out brackets and simplifying			
Algebra – Factorising using a common factor			
Algebra – Factorising using difference of 2 squares.			
Algebra – Factorising trinomials, with unitary x^2 coefficient eg: $x^2 + 5x - 8$			
Algebra – Factorising trinomials, with non- unitary x^2 coefficient eg: $2x^2 + 4x + 9$			
Algebra - Completing the square - unitary x^2 coefficient			
Gradient – Calculating the gradient of a straight line using the formula			
Circle - Length of an arc			
Circle - Area of a sector			
Circle - Finding the angle			
Surds - Simplify			
Surds - Add/Subtract including multiplying out brackets			
Surds - Rationalise the denominator			
Indices – Multiplying, dividing, and raising to power.			
Indices – Negative and fractional powers			
Indices – Multiplying out brackets including a^0 and a^1			
Indices – Using Scientific notation (2.3×10^4)			
Algebraic Operations – Simplifying fractions			
Algebraic Operations – Factorising and simplifying fractions			
Algebraic Operations – Add and subtract fractions			
Algebraic Operations – Multiply and divide fractions			

Relationships

Торіс				
Straight Line:	y = mx + c, Drawing and identifying m and c from graph.			
Straight Line:	rearranging and identifying m and c from equation			
Straight Line:	y - b = m(x - a) forming equation.			
Linear equations/inequations – Solving in form $ax+b=c$ and $ax+b=cx+d$ and including				
brackets and fract	ions			
Simultaneous Equ	ations - Graphically			
Simultaneous Equ	ations - Substitution			
Simultaneous Equ	ations – Elimination, no scaling			
Simultaneous Equ	ations – Elimination, scaling one equation			
Simultaneous Equations – Elimination, scaling both equations				
Change the subject	ct- basic operations			
Change the subject	ct – involving brackets and indices			
Quadratics - Deter	rmine equation of a quadratic from graphs			
Quadratics - Ident	ifying max/min turning point, roots and line of symmetry from			
graphs				
Quadratics - Solvi	ng quadratic equations through factorisation			
Quadratics - Solvi	ng quadratic equations through quadratic formula			
Quadratics – sketc	hing and annotating quadratic graphs			
Quadratics - Using the discriminant from the quadratic formula				
Pythagoras - Mixe	d examples & Converse of Pythagoras			
Pythagoras – 3D and distance between two points				
Properties of shap	e - Triangles			
Properties of shape - Quadrilaterals				
Properties of shap	e – Polygons: interior and exterior angles			
Properties of shap circle and tangent	e - Circle properties including triangles, angles in semi- s.			
Properties of shap	e - Circle properties including perpendicular bisector			
Similarity - Similar	figures and lengths			
Similarity - Similar	triangles			
Similarity – Area S	cale Factor			
Similarity – Volum	e Scale Factor			
Trigonometric gra	phs - curve sketching & identifying key features of graphs			
Scaling amplitude	eg y = $2\sin x$ and multiple angles y= $\sin 2x$			
Trigonometric gra	phs - curve sketching & identifying key features of graphs			
Vertical translation	$y = \sin x + 2$ and phase angles $y = \sin(x - a)$			
Trigonometric Fur	nctions – CAST diagram (or quadrant rule)			
Trigonometric Functions - Solving				
Trigonometric Functions - Identities				

Applications

Торіс		
Trigonometry - Area of a triangle		
Trigonometry - Sine rule to find side		
Trigonometry - Sine rule to find angle		
Trigonometry - Cosine rule to find side		
Trigonometry - Cosine rule to find angle		
Trigonometry - Questions involving bearings		
2D Vectors/3D Coordinates - Vector notation(components) - directed line		
segment/equal vectors/vectors in opposite directions		
2D Vectors/3D Coordinates - Multiplying a vector by a scalar		
2D Vectors/3D Coordinates - Magnitude of a Vector		
2D Vectors/3D Coordinates - Vector addition/subtraction & diagrams		
(vector journeys)		
2D Vectors/3D Coordinates - 3D Coordinates		
Percentages - Reverse percentages		
Percentages - Simple interest		
Percentages - Compound interest		
Percentages - Appreciation/Depreciation		
Fractions - Add/Subtract		
Fractions – Multiply/ Divide, BIDMAS		
Statistics - Mean, median, mode and range		
Statistics - Five figure summary with Boxplot & IQR		
Statistics - Standard deviation		
Statistics - Standard deviation (2 nd formula?)		
Statistics - Standard deviation including comparing distributions		
Statistics - Scatter graphs and correlation		
Statistics - Scatter graphs - line of best fit		

Please type any additional information that could be of use – e.g. preferred learning styles/methods, any specific problems, etc: