NAME		TEACHER				
My GCSE Target Grade is		End of Cycle Teacher Assessment Please circle				
		SAE	AE	E	BE	SBE
End of unit assessment type		Your end of topic assessment will be a written exam.				

YEAR 10 HIGHER — CYCLE 5: MORE ALGEBRA

	Knowledge	Prior knowledge	End of topic
Equations & Graphs	**Simultaneous Equations** – I can solve simultaneous equations graphically by drawing graphs on an axis (including when one is linear and one is quadratic)		
	Inequalities Graphically – I can represent inequalities on graphs and identify regions which satisfy a set of inequalities		
	Quadratic Functions – I can recognise and draw quadratic functions and identify key points on the graph (both accurately and sketching) and find approximate solutions		
	Quadratic Inequalities – I can solve quadratic inequalities and correctly identify the region(s) that is satisfied by the function		
	Iteration – I can solve quadratic and cubic equations using an iterative process and I am confident rearrange complex equations to reach a given form		
	Cubic Functions – I can find the roots of cubic functions and sketch on an axis		
Algebra	**Expanding Triple Brackets** – I can expand triple brackets, simplify and apply to problems involving area and volume.		
	Re-arranging Formulae – I can change the subject of complex formula where the power of the subject appears & where the subject appears twice		
	Algebraic Fractions – I can add, subtract, multiply and divide algebraic fractions		
	Algebraic Fractions 2 – I can simplify algebraic fractions using factorisation and the HCF		
	Solving Algebraic Fractions – I can solve equations involving algebraic fractions (including those that need factorising)		
	Surds 2 – I can **rationalise** the denominator of a surd (including of the form a√b + c)		
	Surds – I can simplify expressions involving surds and **expand brackets** involving surds		

LEARNING TOOLS

KEY CONCEPTS	**Surds**	Why do we need to rationalise the denominator of a surd?			
	Answer below:				
KEY WORDS		**Expand**	**Cubic**	**Irrational**	**Iterate**
KEY EQUATION		$\sqrt{a}+\sqrt{b}\neq\sqrt{a+b}$	$\frac{\sqrt{a}}{\sqrt{b}}=\sqrt{\frac{a}{b}}$	$\sqrt{a}\times\sqrt{b}=\sqrt{a\times b}$	