



Subject	Year	Term
Mathematics (Higher)	10	3
Topic		
Algebra		
Content (Intent)		
Prior Learning (Topic): Shape and Data		
<ul style="list-style-type: none"> Simultaneous equations Quadratic equations Graphical solutions Proportion Transforming graphs Draw Trigonometric graphs Transform Trigonometric graphs 		
Future Learning (Topic)		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
<ul style="list-style-type: none"> Solve simultaneous equations from situations or diagrams Solve equations with unknown on both sides including brackets and negatives Solve simultaneous equations when one is linear and one is quadratic Solve quadratic equations by factorising, using the quadratic formula, completing the square. Plot quadratics and cubics, exponential and reciprocals Find solutions using iteration including change of sign Plot and find the equation of a circle Find the points of intersection of a line and a circle (including a tangent) 	<u>Ongoing Assessment</u> <ul style="list-style-type: none"> Q&A in plenary Mini-whiteboards Self and Peer assessment One written homework per fortnight One online homework per fortnight Feedback, Action and Challenge Time (FACT) 	
<ul style="list-style-type: none"> Model and solve problems using direct and inverse proportion Transform graphs horizontally, vertically and stretch parallel to the x and y axis Draw the sin, cos and tan graphs Transform the sin, cos and tan graphs 	<u>Formal Assessment</u> Formative assessment in July	
How can parents help at home?		
Help to learn 'need-to-know' formulas Encourage use of MyMaths (www.mymaths.co.uk) and MathsWatch (vle.mathswatch.co.uk) [or MathsGenie] Review previously taught topics regularly		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
Reading Direct to the following websites (logon ids will be in the front of the orange maths book); www.mymaths.co.uk vle.mathswatch.co.uk www.mathsgenie.co.uk	Vocabulary Lists Stretch Exponential Reciprocal Tangent	