

Subject	Year	Term
Mathematics (Higher)	11	1
Topic		
Graphs, Algebraic Methods and Functions		
Content (Intent)		
Prior Learning (Topic): Equations of straight lines, collecting like terms, solving equations		
- Gradients and lines - Nonlinear graphs - Using graphs - Expanding and factorising - Changing the subject - Functions		
Future Learning (Topic) Problem solving		
What Knowledge and Skills will be taught (Implementation)	How will your understanding be assessed & recorded (Impact)	
Finding equations of perpendicular lines	<u>Ongoing Assessment</u> - Q&A in plenary - Mini-whiteboards - Self and Peer assessment - One online homework per week - End of unit tests	
- Finding and using the equation of a circle - Finding the equation of the tangent to a curve		
Estimating the area under a curve	<u>Formal Assessment</u> Pre mock in October	
- Factorise and solve complex quadratic expressions - Solve quadratic equations using the quadratic formula		
- Changing the subject where the subject appears more than once - Solve equations by iteration		
Solve quadratic inequalities		
How can parents help at home?		
Help to learn ‘need-to-know’ formulas Encourage use of SparxMaths [or MathsGenie] Review previously taught topics regularly		
Helpful further reading/discussion (including Reading and Vocabulary Lists)		
Reading Direct to the following websites; Sparkmaths.com www.mathsgenie.co.uk	Vocabulary Lists Gradient Quadratic Cubic Reciprocal Speed Distance	Time Expand Factorise Solve Inequalities Subject Substitution