


Subject	Year	Month		
Mathematics	11	January		
Topic:				
Rearranging equations, graphs of cubic and reciprocal functions, simultaneous equations				4 lessons
Content (Intent)				
Prior Learning Year 10 Solving equations March			Future Learning	
Objectives <ul style="list-style-type: none"> • Know the difference between an equation and an identity and use and understand the \neq symbol; • Change the subject of a formula involving the use of square roots and squares; • Answer 'show that' questions using consecutive integers ($n, n + 1$), squares a^2, b^2, even numbers $2n$, and odd numbers $2n + 1$; • Solve problems involving inverse proportion using graphs, and read values from graphs; • Find the equation of the line through two given points; • Recognise, sketch and interpret graphs of simple cubics • Recognise, sketch and interpret graphs of the reciprocal function $y = \frac{1}{x}$ with $x \neq 0$; • Use graphical representations of indirect proportion to solve problems in context; • identify and interpret the gradient from an equation $ax + by = c$; • Write simultaneous equations to represent a situation; • Solve simultaneous equations (linear/linear) algebraically and graphically; • Solve simultaneous equations representing a real-life situation, graphically and algebraically, and interpret the solution in the context of the problem; 				
Pedagogical notes (implementation)			How will understanding be assessed & recorded (Impact)	
Emphasise the need for good algebraic notation.			End of half term no End of Year 2nd mocks in Feb & March	
			How can parents help at home?	
			MathsWatch clips Qualification KS3: Qualification KS4: 96, 136, 140, 159b, 161, 162, 190	
Further reading/discussion				
Reading / Enrichment		Literacy	Numeracy Links	Careers Links Engineer Physicist Statistician