

## Y11 Scheme of Work – AQA GCSE Maths 8300

## Foundation Tier

Term	Week	Lessons	
Autumn 1	1 and 2	6	<b>Basic Algebra and Equations A1, A4, A5, A17</b>
			Algebra notation and collect like terms and laws of indices
			Expand and factorise single brackets and simplify expressions
			Solve equations with unknown on one side
			Solve equations with unknowns on both sides
			Substitute into formulae
			Mixed extra practice as required
	3, 4 and 5	12	<b>Trigonometry G20, G21, R12 (Include recap of Pythagoras)</b>
			Recap Pythagoras
			Recap of trigonometry (finding missing sides and angles)
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			Revision lesson
			Know the exact trig values for sin/cos 0/30/45/60/90. tan 0/30/45/60
			Further trigonometry & Pythagoras practice
			Further trigonometry & Pythagoras practice
	6 and 7	6	<b>Growth and Decay R16</b>
			Recap percentages
			Percentage increase and decrease with a multiplier
			Simple and compound interest
			Growth and decay problems
			Exam questions
Autumn 2	8 and 9	7	<b>Forming and solving equations and link to graphs A17, A21</b>
			Recap of solve equations with unknowns on both sides
			Finding approximate solutions using graphs
			Form and solve equations from simple situations
			Form and solve equations from geometric problems, e.g. angles in a triangle
			Form and solve simple simultaneous equations & link to graphs
			Form and solve simple simultaneous equations & link to graphs
	10 11	8	<b>Mock Exams Fortnight</b>
	12 and 13	7	<b>Direct and Inverse Proportion R10, R13, R14</b>
			Solve problems with direct proportion
			Solve problems with inverse proportion
			Complete worded problems with direct and inverse proportion
			Drawing and interpreting graphs illustrating direct and inverse proportion
			Mixed proportion exam questions
	14	4	<b>Catch up and start Inequalities A22</b>
			Intro to inequalities, using the symbol including in context
			Inequalities on number line, difference in filled in circle and not filled in
			Solve inequalities

Spring 1	15	4	<b>Finish Inequalities A22</b>
			Intro to inequalities, using the symbol including in context
			Inequalities on number line, difference in filled in circle and not filled in
			Solve inequalities
	16	3	<b>Vectors G25</b>
			Intro to vectors, link to translation, adding and subtracting column vectors
			Further arithmetic with column vectors
			Introduction to geometric problems with vectors
	17 and 18	7	<b>Quadratic Equations &amp; Quadratic graphs A18, A12, A11</b>
			Expand double brackets
			Factorise quadratics
			Factorise quadratics
			Solve quadratics by factorising
			Solve quadratics by factorising
			Plot quadratics
	19	4	Plot quadratics and key features of quadratic graphs
			<b>Sketching and recognising graphs A12</b>
			More time on quadratic graphs or linear graphs if needed
			Drawing cubics
			Drawing reciprocal graphs and recognising graphs of different types
Spring 2	20	4	Catch up
	21	4	<b>Revision</b>
	22 23	6	<b>2nd Mocks</b>
Summer1	24, 25, 26		<b>Revision</b>
	27 - 32		Revision