

Year 1 (AS) Maths Scheme of Work

Course Overview

Half term	Weeks	Teacher 1 3 hours per week (use 1 hour for dedicated problem solving from Half Term 3)	Teacher 2 2 hours per week
1	5	Basic skills (3 hours) Basic Algebra Ch. 1 Proof (3 hours) Ch. 2 Surds and indices (3 hours) Ch. 3 Quadratic functions (6 hours) Ch. 4 Simultaneous equations (3 hours)	Basic skills (2 hours) Geometry Ch. 6 Trigonometry (6 hours) Ch. 5.1/5.2 Point and line geometry (4 hours) <i>*Note: Intersections of lines is delayed so that Simultaneous Equations can be completed</i>
		Exam week Content from 1st half term	
2	7	Ch. 4 Inequalities (2 hours) Polynomials & curve sketching Ch. 7 Polynomials (5 hours) Ch. 8 Graphs and transformations (5 hours) Ch. 9 Binomial theorem (4 hours)	Calculus Ch. 10 Differentiation (10 hours) Geometry Ch. 5.3/5.4/5.5 Intersections of lines (4 hours)
3	4	Exponentials and logarithms Ch. 13 Exponentials and logarithms (8 hours)	Calculus Ch. 11 Integration (8 hours)
		Exam week Content from all Pure topics from Autumn term	
	1	Finish pure content	Finish pure content
4	6	Mechanics Teacher	Statistics Teacher
		Ch. 12 Vector geometry (6 hours) (Required in Ch. 20 Equation of motion using vectors)	Teaching with the large data set Ch. 14 Data Collection (4 hours) Ch. 15 Data processing, presentation and interpretation (8 hours)
		Ch. 19 Kinematics (12 hours) Ch. 20 Forces and Newton's laws of motion (6 hours)	
5	6	Ch. 20 Forces and Newton's laws of motion (6 hours) Ch. 21 Variable acceleration (6 hours)	Ch. 16 Probability (2 hours) Ch. 17 Binomial distribution (4 hours) Ch. 18 Hypothesis testing (6 hours)
		AS Exams Paper 1 (Pure & Mech) 1h 30m 13 th May 2020 AM Paper 2 (Pure & Stats) 1h 30m 20 th May 2020 AM	
6	3	Revision for End of Year 12 Exams	
		Y12 Progression Exams 22-26 June 2020 Paper 1 (Pure & Mech) Paper 2 (Pure & Stats)	
	3	Year 2 preparation	
		Differentiation	Integration