

Week	Beginning	Calendar constraints	Textbook reference	Topics	RS/HW	AP	Other	Data deadline
1	04/09/2023	Inset 4th Induct 5&6	d Diagnostic d Diagnostic d Diagnostic d Diagnostic	Expectations use of notation (kahoot) Consider chapter 1 quadrilaterals rearranging UKMT			Thur 7th CPD twilight	
2	11/09/2023		a AP b Buffer 1 2.01 1 2.02 1 2.02	2.1 Notation 7 (move on to next part quickly) Expectations use of notation (kahoot)			Baseline	
3	18/09/2023		1 3.01, 3.02 1 3.03 1 3.04, 3.05 1 3.06 1 4.01, 4.02	quadrilaterals rearranging UKMT 3.6 Rationalising the Denominator 30 4.1 Factorising a Quadratic 39, 4.2 The Quadratic Formula 43			Y12 Baseline	
4	25/09/2023		1 4.03 1 4.04 1 4.05 1 4.06 1 4.07	4.3 Completing the Square 46 4.4 Quadratics Involving Functions of x 49 4.5 The Roots of a Quadratic Function 51 4.6 Using the Discriminant 54 4.7 Sketching Quadratic Graphs 58			Wed - Y12 awards	
5	02/10/2023		1 4.08 1 4.09, 4.1 1 4.11 1 5.01 1 5.02	4.1 Factorising a Cubic (When x is a Factor) 65 4.9 The Factor Theorem 67, 4.10 Factorising a Cubic (When x isn't a Factor) 4.11 Algebraic Division 73 5.1 Linear Inequalities (move onto next quickly and use time for one sim; one quad) 5.2 Quadratic Inequalities 86			Y13 AP1	
6	09/10/2023	Tue inset Thur progress day	0 0 1 5.03 1 5.04 1 5.05	5.3 Graphing Inequalities 91 5.4 Simultaneous Equations - Both Linear 95 5.5 Simultaneous Equations - if One is not Linear			Thur - Y12 tutor parents eve	
7	16/10/2023		1 6.01 1 6.02, 6.03 1 6.04, 6.05, 6.06 1 6.07 1 6.08	6.1 Equations of the Form $y - y_1 = m(x - x_1)$ 6.2 Equations of the Form $y = mx + c$, 6.3 Equations of the Form $ax + by + c = 0$ 6.4 Parallel Lines 114, 6.5 Perpendicular Lines 116, 6.6 Direct Proportion 120 6.7 Sketching Cubic and Quartic Graphs 123 6.6 Graphs of Reciprocal Functions and Negative Powers 127			Tue 17th CPD twilight	
8	23/10/2023	Half term	0 0 0 0 0					
9	30/10/2023		1 6.09 1 6.1 1 6.11 1 6.12 1 6.13	6.9 Translations 129 6.10 Stretches and Reflections 132 6.11 The Equation of a Circle 137 6.12 Rearranging Circle Equations 141 6.13 Using Circle Properties 144			Tue 31st Y13 parents eve	
10	06/11/2023		1 7.01, 7.02 1 7.03, 8.01, 8.02 1 7.03, 8.01, 8.02 1 8.03 1 8.04	7.1 Binomial Expansions $-(1+x)^n$, 7.2 Binomial Expansions $-(1+ax)^n$ 7.3 Binomial Expansions $(a+b)^n$, 8.1 Trig Values from Triangles 175, 8.2 Trig Values 7.3 Binomial Expansions $(a+b)^n$, 8.1 Trig Values from Triangles 175, 8.2 Trig Values 8.3 The Sine Rule 177 8.4 The Cosine Rule 180			Wed 8th Open eve	
11	13/11/2023		1 8.05 1 8.06 1 8.07 1 8.08 1 8.09	8.5 More Trig Rules 183 8.6 Trig Identities 186 8.7 Graphs of Trig Functions 189 8.8 Solving Trig Equations by Sketching a Graph 195 8.9 Solving Trig Equations Using a CAST Diagram 198				
12	20/11/2023	Fri inset	1 8.1 1 8.11 0 0	8.10 Solving Trig Equations by Changing the Interval 201 8.11 Using Trig Identities to Solve Equations 205			Fri 24th Trust inset	
13	27/11/2023		1 9.01 1 9.01 1 9.02 1 9.02 1 9.03, 9.04	9.1 Exponentials 216 9.1 Exponentials 216 9.2 Logarithms 220 9.2 Logarithms 220 9.3 Laws of Logs 224, 9.4 Changing the Base of a Log 226			Tue 28th Math challenge	
14	04/12/2023	Y13 mock exam week	1 9.03, 9.04 1 9.05 1 9.06 1 9.07 1 9.07	9.3 Laws of Logs 224, 9.4 Changing the Base of a Log 226 9.5 Solving Equations with Exponentials and Logs 228 9.6 Modelling Exponential Growth and Decay 232 9.7 Logarithmic Graphs in Linear Form 237 9.7 Logarithmic Graphs in Linear Form 237			Thu 7th Twilight	
15	11/12/2023		a AP b Buffer 1 10.01 1 10.02 1 10.03	10.1 Finding the Gradient of a Curve 248 10.2 Differentiating from First Principles 249 10.3 Differentiating ax^n				
16	18/12/2023		1 10.04 1 10.05 1 10.06 1 10.07 1 10.08	10.4 Differentiating Functions 254 10.5 Finding Tangents and Normals 257 10.6 Finding Second Order Derivatives 261 10.7 Stationary Points 262 10.8 Maximum and Minimum Points 265		Y12	Y13 AP2	
17	25/12/2023	Xmas	0 0 0 0 0					
18	01/01/2024	Xmas	0 0 0 0 0					
19	08/01/2024		1 10.09 1 10.1 1 10.11 1 10.12 1 10.12	10.1 Increasing and Decreasing Functions 268 10.10 Curve Sketching 270 10.11 Speed and Acceleration Problems 274 10.12 Length, Area and Volume Problems 276 10.12 Length, Area and Volume Problems 276			Thur - y13 alumni awards	Y12 AP2 (Thurs)
		Tue	1 10.12	10.12 Length, Area and Volume Problems 276				

20	15/01/2024	Progress day	1	11.01	11.1 Integration 289	
			1	11.02	11.2 Integrating ax^n	
21	22/01/2024		1	11.03	11.3 Integrating Functions 292	
			1	11.04	11.4 Integrating to Find Equations of Curves 294	
			1	11.05	11.5 Evaluating Definite Integrals 297	
			1	12.01	12.1 Introducing Vectors 310	Mon 22nd twilight
			1	12.02	12.2 Position Vectors 316	
22	29/01/2024		a	AP		
			b	Buffer		
			1	12.03	12.3 Calculating with Vectors 320	
			1	12.04	12.4 Modelling with Vectors 325	
			1	1.01	1.1 Populations and Censuses	
23	05/02/2024	Thur inset	0			
			0			
			1	1.01	1.1 Populations and Censuses	
			1	1.02	1.2 Sampling (add in LDS introduction)	Tue - open evening Y12 AP? Y13 AP3
24	12/02/2024	Half term	0			
			0			
			0			
			0			
			0			
25	19/02/2024		1	2.01	1 Representing Data 2	
			1	2.02	2 Histograms 2	
			1	2.03, 2.04	3 The Mean 2, 4 The Mode and the Median 2	
			1	2.05	5 Averages of Grouped Data 2	
			1	2.05	5 Averages of Grouped Data 2	
26	26/02/2024	Y13 mock week	1	2.06	6 Comparing Measures of Location 2	
			1	2.07, 2.08	7 Range, Interquartile Range and Interpercentile Range, Cumulative Frequency Diagrams 2	
			1	2.07, 2.08	7 Range, Interquartile Range and Interpercentile Range, Cumulative Frequency Diagrams 2	
			1	2.09	9 Outliers and Box Plots 2	Wed 28th twilight
			1	2.1	10 Variance and Standard Deviation 2	
27	04/03/2024	Y13 mock week -> Wed	1	2.11	11 Coding 2	
			1	2.12	12 Comparing Distributions 2	
			1	2.13	13 Scatter Diagrams and Correlation 2	
			1	2.14	14 Explanatory and Response Variables 2	
			1	2.15	15 Regression Lines Review Exercise	
28	11/03/2024		1	3.01, 3.02	The Basics of Probability, The Sample Space	
			1	3.03, 3.04	Using Venn Diagrams, Using Two-Way Tables	
			1	3.05	The Addition Law	
			1	3.06	Mutually Exclusive Events	Tue - Quiz night Y13 Mock 2 AP4
			1	3.07	Independent Events	y12
			a	AP		
			b	Buffer		
29	18/03/2024		1	3.08	Tree Diagrams	
			1	4.01, 4.02, 4.03	Discrete Random Variables, Probability Distributions and Functions, The Cumulative Distribution Function	
			1	4.04	Binomial Coefficients	
			1	4.05	The Binomial Distribution	
30	25/03/2024	Fri - bank hol	1	4.06	Using the Binomial Probability Function	Wed Y13 parents evening Thur Y12 AP3
			0			
			0			
31	01/04/2024	Easter	0			
			0			
			0			
			0			
			0			
32	08/04/2024	Easter	0			
			0			
			0			
			0			
33	15/04/2024	Thur progress day	1	4.07	Using Binomial Tables to Find Probabilities	Thur - Y12 parents evening
			1	4.08	Using Binomial Tables 'Backwards'	
			1	4.09	Modelling Real Problems with $B(n, p)$	
34	22/04/2024		1	5.01	Null and Alternative Hypotheses	
			1	5.02	Significance Levels and Test Statistics	
			1	5.03	Hypothesis Tests for a Binomial Distribution	
			1	5.04	Critical Regions for Binomial Hypothesis Tests	Y13 AP5 (at risk or finish course)
			1	6.01	S.I. Units	
			a	AP		
35	29/04/2024		b	Buffer		
			1	6.02	Modelling in Mechanics	
			1	7.01, 7.02	Displacement, Velocity and Acceleration, Displacement-Time Graphs	Thur - twilight 5
			1	7.03	Velocity-Time Graphs	
36	06/05/2024	Mon Bank hol	1	7.03	Velocity-Time Graphs	
			1	7.04	Constant Acceleration Equations	
			1	7.04	Constant Acceleration Equations	
			1	7.05	Gravity	
			1	7.06	More Complicated Problems	
			1	7.07	Displacement with Non-Uniform Acceleration	
37	13/05/2024	Summer Exams start	1	7.08	Velocity and Acceleration Equations	
			1	7.09	Maximum and Minimum Points	
			1	8.01	8.1 Treating Forces as Vectors	Fri Y13 leavers?
			1	8.02	8.2 Resultant Forces and Equilibrium	
			1	8.03	8.3 Newton's Laws of Motion	
			1	8.04	8.4 Using Newton's Laws	
			1	8.05	8.5 Connected Particles	
38	20/05/2024		1	8.06	8.6 Pegs and Pulleys	
			1	8.06	8.6 Pegs and Pulleys	
			1	8.07	8.7 Harder Problems involving Pegs and Pulleys	
39	27/05/2024	Half Term	0			
			0			
			0			
			0			
			0			

40	03/06/2024	1		
		1		
		1		
		1		
		1		
41	10/06/2024	1		
		1		
		1		
		0		
42	17/06/2024	0	Fri - study leave	Friday UCAS exhibition?
		0		
		1		
		1		
		1		
43	24/06/2024	1	Y12 mocks	Mon Y11 induction Thu Y13 prom
		0		
		0		
		0	Y12 mocks - > Tue	
44	01/07/2024	0	Post 18 days	Tue 2nd twilight
		1		
		1		
		1		
		1		
45	08/07/2024	1		Y12 AP5
		0		
		0		
		0		
		0		
46	15/07/2024	0	Work Exp	Y12 mock 2 AP6
	22/07/2024		FINISHED!!!	