

Week	Beginning	Calendar constraints	Textbook reference	Topics	RS/HW	AP	Other	Data deadline
			0					
			0					
			0					
1	04/09/2023	Inset 4th Induct 5&6	1 #N/A	#N/A				Thur 7th CPD twilight
			1.1	Proof by contradiction				
			1.2	Algebraic fractions				
			1.3	Partial fractions				
			1.4	Repeated factors				
			1.5	Algebraic division				
2	11/09/2023		1.2.1	The modulus function				
			1.2.2	Functions and mappings				
			1.2.3	Composite functions				
			1.2.4	Inverse functions				
			1.2.5	$y = f(x) $ and $y = f(x)$				
			1.2.6	Combining transformations				Y12 Baseline
			1.2.7	Solving modulus problems				
			1.3.1	Arithmetic sequences				
			1.3.2	Arithmetic series				
4	25/09/2023		a AP				Stats(10marks); Mech (20 marks); Pure (20 marks)	Wed - Y12 awards
			b Buffer					
			1.3.3	Geometric sequences				
			1.3.4	Geometric series				
			1.3.5	Sum to infinity				
			1.3.6	Sigma notation				
			1.3.7	Recurrence relations				Y13 AP1
			1.3.8	Modelling with series				
			1.4.1	Expanding $(1 + x)^n$				
			1.4.2	Expanding $(a + bx)^n$				Thur - Y12 tutor parents eve
6	09/10/2023	Tue inset Thur progress day	0					
			0					
			1.4.3	Using partial fractions				
			1.5.1, 5.2, 5.3	Radian measure, Arc length, Areas of sectors and segments				
			1.5.4, 5.5, 6.1, 6.2	Solving trigonometric equations, Small angle approximations, Secant, cosecant and				Tue 17th CPD twilight
			1.6.3	Using sec x, cosec x and cot x				
			1.6.4	Trigonometric identities				
8	23/10/2023	Half term	0					
			0					
			0					
			0					
			0					
			1.6.5	Inverse trigonometric functions				
			1.7.1	Addition formulae				
			1.7.2	Using the angle addition formulae				Tue 31st Y13 parents eve
			1.7.3	Double-angle formulae				
			1.7.4	Solving trigonometric equations				
			1.7.5	Simplifying $a \cos x + b \sin x$				
			1.7.6	Proving trigonometric identities				
			1.7.7	Modelling with trigonometric functions				
			1.8.1	Parametric equations				Wed 8th Open eve
			1.8.2	Using trigonometric identities				
			1.8.3	Curve sketching				
			1.8.4	Points of intersection				
			1.8.5	Modelling with parametric equations				
			1.9.1	Differentiating sin x and cos x				
			1.9.2	Differentiating exponentials and logarithms				
			1.9.3	The chain rule				
			1.9.4	The product rule				
			1.9.5	The quotient rule				
			1.9.6	Differentiating trigonometric functions				Fri 24th Trust inset
			1.9.7	Parametric differentiation				
			1.9.8	Implicit differentiation				
			1.9.9	Using second derivatives				
			1.9.1	Rates of change				Tue 28th Math challenge
			1.10.1	Locating roots				
			1.10.2	Iteration				
			a AP					
			a AP					
			a AP					
			a AP					Thu 7th Twilight
			a AP					
14	04/12/2023	Y13 mock exam week						
			1.10.3	The Newton-Raphson method				
			1.10.4	Applications to modelling				
			1.11.1	Integrating standard functions			40marks Y12 Pure; 50 marks Y13 Pure (upto chapter 7); 60 marks actual y12 applied paper.	
			1.11.2	Integrating $\int(ax + b)$				
			1.11.3	Using trigonometric identities				
			1.11.4	Reverse chain rule				
			1.11.5	Integration by substitution				
			1.11.6	Integration by parts				
			1.11.7	Partial fractions				
			1.11.8	Finding areas				Y13 AP2
17	25/12/2023	Xmas	0					
			0					
			0					
			0					
			0					
18	01/01/2024	Xmas	0					
			1.11.8	Finding areas				
			1.11.9	The trapezium rule				
			1.11.1	Solving differential equations				Thur - y13 alumni awards
			1.11.11	Modelling with differential equations				Y12 AP2 (Thurs)
			1.12.1, 12.2	3D coordinates, Vectors in 3D				
			1.12.3	Solving geometric problems				
			1.12.4	Application to mechanics				
			1.1.1	Exponential models				
			1.1.2	Measuring correlation				
			1.1.3	Hypothesis testing for zero correlation				
			1.2.1	Set notation				
			1.2.2, 2.3	Conditional probability, Conditional probabilities in Venn diagrams				
			1.2.4, 2.5	Probability formulae, Tree diagrams				
			1.3.1, 3.2	The normal distribution, Finding probabilities for normal distributions				Mon 22nd twilight
			1.3.3	The inverse normal distribution function				
			1.3.4	The standard normal distribution				
			1.3.5	Finding μ and σ				
			1.3.6	Approximating a binomial distribution				

22	29/01/2024		a AP b Buffer		Y13 Pure up ch10
			1.3.7 Hypothesis testing with the normal distribution 1.3.7 Hypothesis testing with the normal distribution 1.4.1 Moments		
23	05/02/2024	Thur inset	0		Tue - open evening Y13 AP3
			0		
			0		
24	12/02/2024	Half term	0		
			1.4.2 Resultant moments 1.4.3 Equilibrium 1.4.4 Centres of mass 1.4.5 Tiltting		
25	19/02/2024		1.5.1 Resolving forces		
			a AP a AP a AP a AP a AP		
26	26/02/2024	Y13 mock week			Wed 28th twilight
			a AP a AP a AP 1.5.2 Inclined planes 1.5.3 Friction		
27	04/03/2024	Wed			
			1.6.1, 6.2 Horizontal projection , Horizontal and vertical components 1.6.3 Projection at any angle 1.6.4 Projectile motion formulae 1.7.1, 7.2 Static particles , Modelling with statics 1.7.3 Friction and static particles		
28	11/03/2024				Tue - Quiz night Y13 Mock 2 AP4
			1.7.4 Static rigid bodies 1.7.5 Dynamics and inclined planes 1.7.6 Connected particles 1.8.1 Vectors in kinematics 1.8.2 Vector methods with projectiles		
29	18/03/2024				
			1.8.3, 8.4 Variable acceleration in one dimension , Differentiating vectors 1.8.5 Integrating vectors		
30	25/03/2024	Fri - bank hol	1 1 1		Wed Y13 parents evening Thur Y12 AP3
			0 0 0 0 0		
31	01/04/2024	Easter	0		Thur - Y13 parents eve
			0 0 0 0 0		
32	08/04/2024	Easter	0		
			a AP a AP 1 0 0		
33	15/04/2024	Thur progress day			Thur - Y12 parents evening
			1 1 1 1 1		
34	22/04/2024		1		Applied Y13 Paper (Actual) Y13 AP5 (at risk or finish course)
			1 1 1 1 1		
35	29/04/2024		1		Thur - twilight 5
			0 0 0 1 1		
36	06/05/2024	Mon Bank hol			
			0 0 0 0 0		
37	13/05/2024	Summer Exams start	0		Fri Y13 leavers?
			0 0 0 0 0		
38	20/05/2024		0		
			0 0 0 0 0		
39	27/05/2024	Half Term	0		
			0 0 0 0 0		
40	03/06/2024		0		
			0 0 0 0 0		
41	10/06/2024		0		
			0 0 0 0 0		
42	17/06/2024	Fri - study leave	0		Friday UCAS exhibition?
			0 0 0 0 0		
43	24/06/2024	Y12 mocks	0		Mon Y11 induction Thu Y13 prom
			0 0 0 0 0		
		Y12 mocks -	0		

