

Dates	Topics	Subtopics (Textbook References)
10 th Sept – 14 th Sept	Algebraic & Partial Fractions	1.2 Algebraic Fractions 1.3 Partial Fractions 1.4 Repeated Factors 1.5 Algebraic Division
17 th Sept – 21 st Sept	Functions	2.1 Modulus Function 2.2 Functions and Mappings 2.3 Composite Functions 2.4 Inverse Functions 2.5 $y = f(x) $ and $y = f(x)$ 2.6 Combining Transformations 2.7 Solving Modulus Problems
24 th Sept – 28 th Sept	Differentiation – Part 1	9.1 Differentiating $\sin x$ and $\cos x$ 9.2 Differentiating Exponentials and Logarithms 9.3 The Chain Rule 9.4 The Product Rule 9.5 The Quotient Rule
1 st Oct – 5 th Oct	Differentiation – Part 2	9.8 Implicit Differentiation 9.9 Using Second Derivatives 9.10 Rates of Change
8 th Oct – 12 th Oct	Trigonometry – Part 1	6.1 Secant, Cosecant and Cotangent 6.2 Graphs of $\sec x$, $\operatorname{cosec} x$ and $\cot x$ 6.3 Using $\sec x$, $\operatorname{cosec} x$ and $\cot x$ 6.4 Trigonometric Identities 6.5 Inverse Trigonometric Identities
15 th Oct – 17 th Oct	Trigonometry – Part 2	7.1 Addition Formulae 7.2 Using the Angle Addition Formulae
18 th Oct – 28 th Oct	OCTOBER HALF TERM	

29 th Oct – 2 nd Nov	ASSESSMENT 1	
	Trigonometry – Part 2	7.3 Double-Angle Formulae 7.4 Solving Trigonometric Equations 7.5 Simplifying $a\cos x \pm b\sin x$
5 th Nov – 9 th Nov	FEEDBACK	
	Trigonometry – Part 2	7.6 Proving Trigonometric Identities 7.7 Modelling with Trigonometric Functions
12 th Nov – 16 th Nov	Differentiation – Part 3	9.6 Differentiating Trigonometric Functions
	Binomial Expansion	4.1 Expanding $(1 + x)^n$ 4.2 Expanding $(a + bx)^n$ 4.3 Using Partial Fractions
19 th Nov – 23 rd Nov	Integration – Part 1	11.1 Integrating Standard Functions 11.2 Integrating $f(ax + b)$ 11.3 Using Trigonometric Identities 11.4 Reverse Chain Rule 11.5 Integration by Substitution
26 th Nov – 30 th Nov	Integration – Part 2	11.6 Integration by Parts 11.7 Partial Fractions 11.8 Finding Areas 11.9 The Trapezium Rule
3 rd Dec – 7 th Dec	Forces – Part 1	5.1 Resolving Forces 5.2 Inclined Planes 5.3 Friction
10 th Dec – 14 th Dec	Forces – Part 2	7.1 Static Particles 7.2 Modelling with Statics 7.3 Friction & Static Particles 7.4 Static Rigid Bodies 7.5 Dynamics & Inclined Planes 7.6 Connected Particles
17 th Dec – 20 th Dec	Moments	4.1 Moments 4.2 Resultant Moments 4.3 Equilibrium 4.4 Centres of Mass 4.5 Tilting
21 st Dec – 6 th Jan	CHRISTMAS	

7 th Jan – 11 th Jan	Projectiles	6.1 Horizontal Projection 6.2 Horizontal & Vertical Components 6.3 Projection at any Angle 6.4 Projectile Motion Formulae
14 th Jan – 18 th Jan	Sequences & Series – Part 1	3.1 Arithmetic Sequences 3.2 Arithmetic Series 3.3 Geometric Sequences 3.4 Geometric Series
21 st Jan – 25 th Jan	Sequences & Series – Part 2	3.5 Sum to Infinity 3.6 Sigma Notation 3.7 Recurrence Relations 3.8 Modelling with Series
28 th Jan – 1 st Feb	Normal Distribution	3.1 Normal Distribution 3.2 Finding Probabilities 3.3 The Inverse Normal Distribution Function 3.4 The Standard Normal Distribution Function 3.5 Finding μ and σ 3.6 Approximating a Binomial Distribution
4 th Feb – 8 th Feb	MOCK 1 – PURE	
11 th Feb – 15 th Feb	FEEDBACK	
	Integration – Part 3	11.10 Solving Differential Equations 11.11 Modelling with Differential Equations
16 th Feb – 25 th Feb	FEBRUARY HALF TERM	

26 th Feb – 1 st Mar	Probability	2.1 Set Notation 2.2 Conditional Probability 2.3 Conditional Probability in Venn Diagrams 2.4 Probability Formulae 2.5 Tree Diagrams
4 th Mar – 8 th Mar	Numerical Methods	10.1 Locating Roots 10.2 Iteration 10.3 The Newton-Raphson Method 10.4 Applications to Modelling
11 th Mar – 15 th Mar	Parametric Equations ***See separate extra pages for textbook	8.1 Parametric Equations 8.2 Using Trigonometric Identities 8.3 Curve Sketching 8.4 Points of Intersection 8.5 Modelling with Parametric Equations 9.7 Parametric Differentiation 11.8 Parametric Integration ***
18 th Mar – 22 nd Mar	Vectors	12.1 3D Coordinates 12.2 Vectors in 3D 12.3 Solving Geometric Problems 12.4 Applications to Mechanics
25 th Mar – 29 th Mar	Further Kinematics	8.1 Vectors in Kinematics 8.2 Vector Methods with Projectiles 8.3 Variable Acceleration in One Dimension 8.4 Differentiating Vectors 8.5 Integrating Vectors
1 st April – 5 th April	Regression, Correlation & Hypothesis Testing	1.1 Exponential Models 1.2 Measuring Correlation 1.3 Hypothesis Testing for Zero Correlation
	Normal Distribution	3.7 Hypothesis Testing for Normal Distribution
6 th April – 22 nd April	EASTER	

23 rd April – 26 th April	MOCK 2 – PURE
29 th April – 3 rd May	MOCK 3 – STATISTICS & MECHANICS
7 th May – 17 th May	REVISION

5 th June AM	PURE 1 EXAM
12 th June AM	PURE 2 EXAM
14 th June PM	STATISTICS & MECHANICS EXAM