C3 C4 M1 Teaching

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| **Date** | **Wk** | **T1** | **Section** | **Textbook** | **T2** | **Section** | **Textbook** |
| 10/06/13 | 2 | 1 | C3 Fractions | 1A | 1 | C3 Functions | 2A |
|  |  |  |  |  | 2 | C3 Composite Functions | 2B |
| 17/06/13 | 1 | 1 | C3 Division | 1B | 1 | C3 Inverse Functions | 2C |
|  |  | 2 | C4 Partial Fractions  | 8A | 2 | C3 Modulus Function | 2D |
|  |  | 3 | C4 Partial Fractions  | 8A |  |  |  |
|  |  | 4 | C3/C4 Algebra Review |  |  |  |  |
|  |  | 5 | C3 Function ex and lnx  | 4A |  |  |  |
| 24/06/13 | 2 | 1 | C3 Function ex and lnx  | 4A | 1 | C3 Modulus Equations | 2E |
|  |  |  |  |  | 2 | C3 Transformation of Graphs | 2F |
| 01/07/13 | 1 | 1 | C3 Solving Equations  | 4B | 1 | C3 Function Review |  |
|  |  | 2 | C3 Locating Roots  | 6A | 2 | C4 Introduction to Vectors | 15A |
|  |  | 3 | C3 Iteration formula  | 6B |  |  |  |
|  |  | 4 | C3 Iteration formula  | 6B |  |  |  |
|  |  | 5 | C4 Binomial Expansion 9.1 | 9A |  |  |  |
| 08/07/13 | 2 | 1 | C4 Binomial Expansion 9.1 | 9A | 1 | C4 Geometrical Interpretation | 15B |  |
|  |  |  |  |  | 2 | C4 Intro to Vectors in Mechanics |  |  |
| 15/07/13 | 1 | 1 | C4 Binomial Expansion 9.1 | 9A | 1 | Review |  |
|  |  | 2 | Review |  | 2 | Review |  |
|  |  | 3 | Review |  |  |  |  |
|  |  | 4 | Review |  |  |  |  |
|  |  | 5 | Review |  |  |  |  |
| 22/07/13 | 2 | 1 | Review |  | 1 | **No Lesson** |  |
|  |  |  |  |  | 2 | **No Lesson** |  |
| Summer Holidays |
| 09/09/13 | 2 | 1 | C3 Reciprocal Functions | 3A | 1 | M1 |  |
|  |  | 2 | C3 Equations and Identities | 3A | 2 | M1 Mathematical Modelling |  |
|  |  | 3 | C3 Inverse Trig Functions | 3B |  |  |  |
| 16/09/13 | 1 | 1 | C3 The Additional Formulae | 3C | 1 | M1 SUVAT Formulae 1  | 2A |
|  |  | 2 | C3 The Additional Formulae | 3C |  |  |  |
|  |  | 3 | C3 Double/Half Angle Formulae | 3D |  |  |  |
| 23/09/13 | 2 | 1 | C3 Double/Half Angle Formulae | 3D | 1 | M1 SUVAT Formulae 2 | 2B |
|  |  | 2 | C3 The Form acos(x+b) etc | 3F | 2 | M1 Motion under Gravity | 2C |
|  |  | 3 | C3 The Form acos(x+b) etc | 3F |  |  |  |
| 30/09/13 | 1 | 1 | C3 Trig Review |  | 1 | M1 Speed/Distance Graphs | 2D |
|  |  | 2 | C3 The Chain Rule | 5A |  |  |  |
|  |  | 3 | C3 The Chain Rule  | 5A |  |  |  |
| 07/10/13 | 2 | 1 | C3 The Product Rule  | 5D(1,2,7,14) | 1 | M1 Kinematics Review |  |
|  |  | 2 | C3 The Quotient Rule  | 5D | 2 | M1 Weight and F= ma | 3A |
|  |  | 3 | C3 Differentiating ex  | 5B |  |  |  |
| 14/10/13 | 1 | 1 | C3 Differentiating lnx  | 5C | 1 | M1 Resolve Vertical and Horizontal | 3B |
|  |  | 2 | Revision |  |  |  |  |
|  |  | 3 | Revision |  |  |  |  |
| 21/10/13 | 2 | 1 | **C3 Exam** |  | 1 | Revision |  |
|  |  | 2 | C3 Differentiating sinx and cosx  | 5E | 2 | **M1 Exam** |  |
|  |  | 3 | C3 Differentiating sinx and cosx  | 5E |  |  |  |
| October Half Term |
| 04/11/13 | 1 | 1 | C3 Differentiating trig functions  | 5F | 1 | M1 Components of Forces | 3C |
|  |  | 2 | C3 Differentiating trig functions  | 5F |  |  |  |
|  |  | 3 | C3 Differentiation Review |  |  |  |  |
| 11/11/13 | 2 | 1 | C3 Proof by Deduction  | 7A | 1 | M1 Coefficient of Friction | 3D |
|  |  | 2 | C3 Disproof by Counter  | 7B | 2 | M1 Resolving on a Plane | 3E |
|  |  | 3 | C3 Prove by Contradiction  | 7C/7D |  |  |  |
| 18/11/13 | 1 | 1 | C4 Implicit Differentiation  | 10A | 1 | M1 Connected Particles | 3F |
|  |  | 2 | C4 Implicit Differentiation  | 10A |  |  |  |
|  |  | 3 | C4 Rates of Change  | 10B |  |  |  |
| 25/11/13 | 2 | 1 | C4 Growth and Decay  | 10C | 1 | M1 Momentum and Impulse | 3G |
|  |  | 2 | C4 Review  | 10D | 2 | M1 PoCoLM | 3H |
|  |  | 3 | C4 Volumes of Revolution | 12A |  |  |  |
| 02/12/13 | 1 | 1 | C4 Ln x and ex | 12B | 1 | M1 Dynamics Review |  |
|  |  | 2 | C4 Integration by Recognition | 12C |  |  |  |
|  |  | 3 | C4 Integration by Recognition | 12C |  |  |  |
| 09/12/13 | 2 | 1 | C4 Integration by Substitution | 12D | 1 | M1 Review Exercise 1 |  |
|  |  | 2 | C4 Integration by Substitution | 12D | 2 | M1 Resolving in Equilibrium | 4A |
|  |  | 3 | C4 Integration by Recognition  | 12E |  |  |  |
| 16/12/13 | 1 | 1 | C4 Integration by Recognition  | 12E | 1 | M1 Systems of Forces | 4B |
|  |  | 2 | Review  |  |  |  |  |
|  |  | 3 | Review |  |  |  |  |
| Christmas Holidays |
| 06/01/14 | 2 | 1 | Revision |  | 1 | Revision |  |
|  |  | 2 | Revision |  | 2 | Revision |  |
|  |  | 3 | Revision |  |  |  |  |
| 13/01/14 | 1 | 1 | Revision |  | 1 | **M1 Exam** |  |
|  |  | 2 | Revision |  |  |  |  |
|  |  | 3 | **C3 Practice Exam Jan 1013** |  |  |  |  |
| 20/01/14 | 2 | 1 | C4 Integration of Trig Functions | 13A | 1 | M1 Statics involving Friction | 4C |
|  |  | 2 | C4 Integration of Trig Functions | 13A | 2 | M1 Chapter 4 Review |  |
|  |  | 3 | C4 Integration by Recognition  | 13B |  |  |  |
| 27/01/14 | 1 | 1 | C4 Integration by Parts  | 13C | 1 | M1 Moment of a Force | 5A |
|  |  | 2 | C4 Parametric Equations  | 11A |  |  |  |
|  |  | 3 | C4 Parametric Differentiation  | 11B |  |  |  |
| 03/02/14 | 2 | 1 | C4 Parametric Differentiation  | 11B | 1 | M1 Moments of Forces | 5B |
|  |  | 2 | C4 Parametric Integration | 13D | 2 | M1 Moments in Equilibrium | 5C |
|  |  | 3 | C4 Integration Review |  |  |  |  |
| 10/02/14 | 1 | 1 | Review  |  | 1 | M1 Non-Uniform Bodies | 5D |
|  |  | 2 | Review |  |  |  |  |
|  |  | 3 | Review |  |  |  |  |
| Spring Half Term |
| 24/02/14 | 2 | 1 | C4 The Trapezium rule | 13E | 1 | M1 Vector Review | 6A-D |
|  |  | 2 | C4 Differential Equations | 14A | 2 | M1 Velocity | 6E |
|  |  | 3 | C4 Ex Growth and Decay | 14B |  |  |  |
| 03/03/14 | 1 | 1 | C4 Ex Growth and Decay | 14B | 1 | M1 Position, Velocity and Time | 6F |
|  |  | 2 | C4 Integration Review 2 |  |  |  |  |
|  |  | 3 | C4 Vectors Review |  |  |  |  |
| 10/03/14 | 2 | 1 | C4 Scalar Product | 15C | 1 | M1 Systems of Forces | 6G |
|  |  | 2 | C4 Vector Equation of a Line | 15D | 2 | M1 Chapter 6 Review |  |
|  |  | 3 | Past Papers and Revision C3/C4 |  |  |  |  |
| 17/03/14 | 1 | 1 | Past Papers and Revision C3/C4 |  | 1 | Past Papers and Revision M1 |  |
|  |  | 2 | Past Papers and Revision C3/C4 |  |  |  |  |
|  |  | 3 | Past Papers and Revision C3/C4 |  |  |  |  |
| 24/03/14 | 2 | 1 | Past Papers and Revision C3/C4 |  | 1 | Past Papers and Revision M1 |  |
|  |  | 2 | Past Papers and Revision C3/C4 |  | 2 | Past Papers and Revision M1 |  |
|  |  | 3 | Past Papers and Revision C3/C4 |  |  |  |  |
| 31/03/14 | 1 | 1 | **C3 Mock Exam June 2013** |  | 1 | **M1 Mock Exam June 2013** |  |
|  |  | 2 | Past Papers and Revision C3/C4 |  |  |  |  |
|  |  | 3 | Past Papers and Revision C3/C4 |  |  |  |  |
| Easter Holidays |