| | | | Teacher (6 lessons) | | | | Teacher (3 lessons) | |
|---|---|---|---|---|---|---|---|---|

| 2 weeks commencing: | Chapter | Topic | LO | Homework | Chapter | Topic | LO | Homework |
|---|---|---|---|---|---|---|---|---|
| **05 September 2021** | C5 | Coordinate geometry | 1) Midpoints, Gradients, Len | Ex 5A, 5G & 6A | C1 | Indices & Surds | 1) Indices | Ex 1D |
| | | | 2) Parallel & Perpendicular | Ex 5B & 5C | | | 2) Working with surds | Ex 1E |
| | | | 3) Equation of a straight line | MAP, 5E & 5F | | | 3) Rationalising | Ex 1F |
| | | | 4) Coordinate geometry pro | Ex 5G | | | | |
| | | | 5) Modelling with straight li | Ex 5H | | | | |
| | A10 | Forces | 1) Introduction to forces | Ex 10A | | | | |
| **19 September 2021** | A10 | Forces | 2) Forces as vectors | Ex 8D & 10B | C2 | Quadratics | 1) Solving | Ex 2A & 2B & Hidden q |
| | A9 | Constant acceleration | 1) Veloicty time graphs | Ex 9A & Integral qorksh | | | 2) Completing the square | Ex 2C & 2D |
| | | | 2) Graphs of motion | Ex 9B | | | 3) Sketching quadratics | Ex 2F |
| | | | 3) Constant acceleration | Ex 9C | | | | |
| | | | 4) SUVAT equations | Ex 9D | | | | |
| | | | 5) Vertical motion | Ex 9E | | | | |
| **03 October 2021** | A9 | Constant acceleration | 6) SUVAT Practice | Mixed Ex 9 & Madas wo | C2 | Quadratics | 4) The discriminant | Ex 2G & 3C |
| | C6 | Circles | 1) Equation of a circle | MAP, Ex 6C | | | 5) Modelling with quadratics | Ex 2H |
| | | | 2) Intersections and using t | Ex 6D | | | 6) Quadratic functions | Ex 2E |
| | | | 3) Tangent and chord prope | Ex 6E | | | | |
| | | | 4) Finding equations from c | Ex 6F | | | | |
| | A10 | Forces | 3) Forces and acceleration | Ex 10C | | | | |
| **17 October 2021** | A10 | Forces | 4) Motion In Two Directions | Ex 10D | C3 | Inequalities | 1) Graphs and regions of ine | Ex 3F & 3G |
| | | | 5) Connected Particles | Ex 10E | | | 2) Inequalities | Ex 3A & 3B |
| | | | 6) Pulleys | Ex 10F | | | 3) Set notation | Ex 3D |

| | | | | | **Half Term** | | | |
|---|---|---|---|---|---|---|---|---|

| | Teacher (6 lessons) | | | | Teacher (3 lessons) | | | |
|---|---|---|---|---|---|---|---|---|
| 2 weeks commencing: | Chapter | Topic | LO | Homework | Chapter | Topic | LO | Homework |
| **31 October 2021** | A10 | Forces | 7) Practice & Problem Solvin | Mixed Ex 10 | C3 | Inequalities | 4) Quadratic inequalities | Ex 3E |
| | A6 | Statistical Distributions | 1) Statistical Distributions | Ex 6A | C8 | Binomial Expansion | 1) Pascal's triangle and facto | Ex 8A and 8B |
| | | | 2) Binomial Distribution | Ex 6A - 1, 2, 4, 6, 7 & 8 | | | 2) The binomial expansion | Ex 8C |
| | | | 3) Calculator use | Ex 6C | | | | |
| | | | 4) Cumulative probabilities | AQA textbook & Integr | | | | |
| | A7 | Hypothesis Tests | 1) Introduction to Hypothes | Ex 7A | | | | |
| **14 November 2021** | A7 | Hypothesis Tests | 2) Critical Regions & Values | Ex 7B | C8 | Binomial Expansion | 3) Solving Binomial Problem | Ex 8D |
| | | | 3) One-tailed Hypothesis Te | Ex 7C | | | 4) Binomial Estimation | Ex 8E |
| | | | 4) Two-tailed Tests | Ex 7D | | | 5) Practice & Problem Solvin | Mixed Ex 8 |
| | C10 | Trigonometric Equations | 1) Solving Simple Trig Equat | Simple Trigonometric E | | | | |
| | | | 2) Transformations of Trigo | Equations with 1 and 2 | | | | |
| | | | 3) Quadratic Trigonometri | Quadratic trigonometri | | | | |
| **28 November 2021** | C10 | Trigonometric Equations | 4) Trigonometric Identities | Ex 10C - Questions 4, 6- | C7 | Polynomials & Proof | 1) Polynomial Long Division | Ex 7B Q1-6 |
| | | | 5) Proof with the identities | Ex 10D - Remaining que | | | 2) Division with remainders | Ex 7B - Q7 onwards |
| | C12 | Differentiation | 1) Introduction to Differenti | Ex 12D – 1&2 & Ex 12E | | | 3) Factor Theorem | Ex 7C |
| | | | 2) What is Differentiation | Ex 12D – 3-7 & Ex 12E – | | | | |
| | | | 3) Tangents & Normals | Ex 12F & Worksheet (4 | | | | |
| | | | 4) Stationary points | Ex 12H & 12I | | | | |
| **12 December 2021** | C12 | Differentiation | 5) Increasing and Decreasin | Ex 12G | C7 | Polynomials & Proof | 4) Proof Introduction | Intergral worksheets |
| | | | 6) Modelling with Differenti | Ex 12K | | | 5) Proof by Deduction | Ex 7D |
| | | | 7) Sketching the Derivative | Ex 12J | | | 6) Methods of Proof | Ex 7E |

**End Of Autumn Term**

| | | Teacher (6 lessons) | | | | Teacher (3 lessons) | | |
|---|---|---|---|---|---|---|---|---|
| **2 weeks commencing:** | **Chapter** | **Topic** | **LO** | **Homework** | **Chapter** | **Topic** | **LO** | **Homework** |
| **02 January 2022** | C12 | Differentiation | 8) Differentiation from First | Ex 12B - Q 3-7 | C4 | Graphs & Transformations | 1) Cubics & Quartics | Ex 4A & 4B |
| | C13 | Integration | 1) Indefinite Integrals | Ex 13A & 13B | | | 2) Reciprocal graphs | Ex 4C |
| | | | 2) Finding the constant of in | Ex 13C | | | 3) Translations | Ex 4E |
| | | | 3) Definite integrals | Ex 13D | | | | |
| | | | 4) Areas under graphs | Ex 13E | | | | |
| | | | 5) Areas under the x axis | Ex 13F | | | | |
| **16 January 2022** | C13 | Integration | 6) Areas between lines and | Ex 13G | C4 | Graphs & Transformations | 4) Stretches and Reflections | Ex 4F |
| | | | 7) Problem Solving | Booklet | | | 5) Transformations without | Ex 4G |
| | A11 | Variable acceleration | 1) Functions of Time | Ex 11A | C9 | Trigonometry | 1) Cosine rule | Ex 9A |
| | | | 2) Using differentiation | Ex 11B | | | | |
| | | | 3) Maxima/Minima | Ex 11C | | | | |
| | | | 4) Using integration | Ex 11D | | | | |
| **30 January 2022** | | | **Year 12 PPE 1** | | | | **Year 12 PPE 1** | |
| | C14 | ponentials & Logarithm | 1) Transforming the graph o | Ex 14B | C9 | Trigonometry | 2) Sine rule | Ex 9B |
| | | | 2) Modelling with e | Ex 14C | | | 3) Ambiguous Sine rule | Ex 9C |
| | | | 3) Introduction to logarithm | Ex 14D | | | 4) Area of a triangle | Ex 9D |
| | | | **Half Term** | | | | | |

| | Teacher (6 lessons) | | | | Teacher (3 lessons) | | | |
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| 2 weeks commencing: | Chapter | Topic | LO | Homework | Chapter | Topic | LO | Homework |
|---|---|---|---|---|---|---|---|---|
| **20 February 2022** | C14 | Exponentials & Logarithms | 4) Laws of logarithms | Ex 14E | C9 | Trigonometry | 5) Problem solving | Ex 9E |
| | | | 5) Solving equations using l | Ex 14F | A3 | Representing data | 1) Outliers | Ex 3A |
| | | | 6) Using the natural logarith | Ex 14G | | | 2) Box Plots and Cumulative | Ex 3B |
| | | | 7) Compound transformatio | Booklet questions | | | | |
| | | | 8) Logarithms and non-linea | Ex 14H | | | | |
| | A1 | Population & | 1) Population & Sampling | Ex 1A | | | | |
| **06 March 2022** | A1 | Population & Sampling | 2) Sampling | Ex 1B | A3 | Representing data | 3) Box Plots and Cumulative | Ex 3C |
| | | | 3) Sampling Frame | Ex 1D | | | 4) Histoagrams | Ex 3D |
| | | | 4) Non-Random Sampling | Ex 1C | | | 5) Comparing Data | Ex 3E |
| | | | 5) Introduction to Large Dat | Worksheet | | | | |
| | | | 6) Large Data Set | Ex 1E | | | | |
| | C7 | Proof | 1) Proof by counter-exampl | Booklet | | | | |
| **20 March 2022** | C7 | Proof | 2) Proof by exhaustion | Booklet | A5 | Probability | 1) Venn Diagrams & definiti | Ex 5A & 5B |
| | | | 3) Identities | Booklet & Ex 7D - Qns 2 | | | 2) Mutually Exclusive and In | Ex 5C |
| | | | 4) Proof by deduction | Booklet & Ex 7E | | | 3) Tree Diagrams | Ex 5D |
| | | | 5) Geometric proof | Booklet | | | | |
| | A4 | Correlation | 1) Correlation | Ex 4A | | | | |
| | | | 2) Regression | Ex 4B | | | | |

| **End Of Spring Term** |
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| | | Teacher (6 lessons) | | | | | Teacher (3 lessons) | | |
|---|---|---|---|---|---|---|---|---|---|

| 2 weeks commencing: | Chapter | Topic | LO | Homework | Chapter | Topic | LO | Homework |
|---|---|---|---|---|---|---|---|---|
| **17 April 2022** | A2 | Measures of Location & Spread | 1) Location & Spread | Ex 2A & 2B | C11 | Vectors | 1) The triangle law | Ex 11A |
| | | | 2) Interpolation | Ex 2C 1a, 2, 4a, 5a & wo | | | 2) I, j notation and parallel v | Integral Ex 11B |
| | | | 3) Quartiles & Percentiles | Ex 2C & 2D & workshee | | | 3) Magnitude and direction | Ex 11C |
| | | | 4) Standard Deviation & Var | Ex 2E | | | | |
| | | | 5) Coding | Ex 2F | | | | |
| | | | Revision & Re-teaching | Targeted Practice | | | | |
| **01 May 2022** | | | Revision & Re-teaching | Targeted Practice | C11 | Vectors | 4) Position vectors | Ex 11D |
| | | | Revision & Re-teaching | Targeted Practice | | | 5) Geometric problem solvin | Solomon w/s, Integral |
| | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| | | | Revision & Re-teaching | Targeted Practice | | | | |
| | | | Revision & Re-teaching | Targeted Practice | | | | |
| | | | Revision & Re-teaching | Targeted Practice | | | | |
| **15 May 2022** | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| | | | Revision & Re-teaching | Targeted Practice | | | | |
| | | | Revision & Re-teaching | Targeted Practice | | | | |
| | | | Revision & Re-teaching | Targeted Practice | | | | |

| | | Half Term | |
|---|---|---|---|

| | Teacher (6 lessons) | | | | Teacher (3 lessons) | | | |
|---|---|---|---|---|---|---|---|---|
| **2 weeks commencing:** | **Chapter** | **Topic** | **LO** | **Homework** | **Chapter** | **Topic** | **LO** | **Homework** |
| | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| | | | Revision & Re-teaching | Targeted Practice | | | Revision & Re-teaching | Targeted Practice |
| **05 June 2022** | | | **Year 12 End of Year Exams** | | | | **Year 12 End of Year Exams** | |
| **19 June 2022** | C6 | Reciprocal Trigonometry | 1) Reciprocal trigonometric | 6A and 6B - 1, 6, 7, 8 | | | | |
| | | | 2) Proof with reciprocal trig | Ex 6C/ Solomon C3 wor | | | | |
| | | | 3) Solving with reciprocal tr | Ex 6C/ Solomon C3 wor | | | | |
| **03 July 2022** | C6 | Reciprocal Trigonometry | 4) Reciprocal trig identities | Ex 6D/ Solomon C3 wor | C5 | Radians | 1) Calculating arc length | Ex 5A |
| | | | 5) Reciprocal trig identities | Ex 6D/ Solomon C3 wor | | | 2) Calculating sector area | Ex 5B |
| | C5 | Radians | 4) Small angle approximatio | Ex 5D | | | 3) Solving trig equations in r | Ex 5C |
| | | | **Year 12 Work Exerience** | | | | **Year 12 Work Exerience** | |
| | | | **End Of Summer Term** | | | | | |