| Wk | Date | A | B |
| :---: | :---: | :---: | :---: |
| A | 07/09/22 | 1. Imaginary and Complex Numbers Ex 1A/B <br> 2. Multiplying Complex Numbers 1C <br> 3. Complex Conjugation 1D | 1. Intro to Matrices Ex 6A <br> 2. Matrix Multiplication Ex 6B <br> 3. Determinants Ex 6C |
| B | 12/09/22 |  |  |
| A | 19/09/22 | 1. Roots of Quadratic Equations 1E <br> 2. Solving Quartic and Cubic Equations Ex1F <br> 3. Mixed Exercise 1 <br> 4. Argand Diagrams Exercise 2A | 1. Inverse of 2 by 2 matrices Ex 6D <br> 2. Inverse of 3 by 3 matrices Ex 6E <br> 3. Using matrices to solve systems of equations and find nature of intersection of 3 planes Ex 6F <br> 4. Mixed Exercise 6 |
| B | 26/09/22 |  |  |
| A | 03/10/22 | 1. Modulus \& Argument Ex 2B <br> 2. Modulus Argument Form ex 2C <br> 3. Modulus Argument Form ex 2D <br> 4. Loci in the Argand Diagram ex 2E | 1. Mixed Exercise 6 <br> 2. Linear Transformations in 2 D Ex 7A <br> 3. Reflections, rotations and invariance in 2D Ex 7B <br> 4. Enlargements and Stretches in 2D Ex 7C |
| B | 10/10/22 |  |  |
| A | 17/10/22 | 1. Loci in the Argand Diagram ex 2E <br> 2. Regions in the Argand Diagram ex 2 F | 1. Combining Transformations Ex 7D <br> 2. Linear Transformations in 3D Ex 7E |
| Half Term |  |  |  |
| B | 31/10/22 | 1. Regions in the Argand Diagram ex 2 F | 1. Inverse of a Linear Transformation Ex 7F |
| A | 07/11/22 | 2. Mixed Exercise 2 <br> 3. Roots of a quadratic equation ex 4 A <br> 4. Roots of a cubic equation ex 4B | 2. Mixed Exercise 7 <br> 3. Summation of Natural Numbers Ex 3A Q1q, b,e,g,, Q2, 3, 7, 8 <br> 4. Summation of Natural Numbers Ex 3A part 2 Q4,5,6,9 - 14 |
| B | $14 / 11 / 22$ <br> $21 / 11 / 22$ | 1. Roots of a quartic equation ex 4 C <br> 2. Expressions related to roots of polynomials Ex 4D <br> 3. Linear transformations of roots Ex 4E <br> 4. Mixed Exercise 4 | 1. Summation of Squares and Cubes Ex 3B Q 1, 2, 3,5 <br> 2. Summation of Squares and cubes part 2 Ex 3B Q 6, 7, 8, 9, 11, 13, 14 <br> 3. Mixed Exercise 3 <br> 4. Revision for test |
| B | 28/11/22 |  | 1. Revision for test |
| A | 05/12/22 | 2. Revision for test <br> 3. Introduce integration <br> 4. Volumes of revolution around x-axis Ex 5A | 2. Test <br> 3. Proof by induction part 1 Ex 8 A <br> 4. Induction for summation proof part 2 Ex 8 A |
| B | 12/12/22 | 1. Volumes of revolution around y-axis Ex 5B <br> 2. Adding and subtracting volumes Ex 5C | 1. Induction proof for matrices Ex 8 C <br> 2. Induction proof for divisibility part 1 Ex 8 B |
| Christmas |  |  |  |



| B | 08/05/23 |  | Nth roots of a complex number Ex 1F <br> Nth roots of a complex number Ex $1 F$ | 3. Mixed Ex 1 <br> 4. Mixed Ex 1 |
| :---: | :---: | :---: | :---: | :---: |
| A B | 15/05/23 | $\begin{aligned} & \mathbf{1 .} \\ & \mathbf{2 .} \\ & \mathbf{3 .} \\ & 4 . \end{aligned}$ | Solving geometric problems Ex 1G Solving geometric problems Ex 1G Mixed Exercise 1 Mixed Exercise 1 | 1. Go over paper <br> 2. Mixed Ex 1 <br> 3. General vectors work <br> 4. Integration Pure $\mathbf{2}$ Ch $\mathbf{1 1}$ Introduce the chain rule and product rule |
| Half Term |  |  |  |  |
| A | 05/06/23 | 1. Mixed Exercise 1 <br> 2. Mixed Exercise 1 <br> 3. Trigonometry Pure 2 Ch 7 Addition formula Ex 7A <br> 4. Using the addition angle formula Ex 7B |  | 1. Standard functions Ex 11A <br> 2. Integrating $f(a x+b)$ Ex B <br> 3. Integrating using trig functions Ex 11C <br> 4. Reverse chain rule Ex 11D |
| A | 19/06/23 | 1. Double-angle formula Ex 7C <br> 2. Solving trig equations Ex 7D <br> 3. Harmonic form Ex 7E <br> 4. Proving trig identities Ex 7F |  | 1. Integration by substitution Ex 11 E <br> 2. Integration by substitution Ex 11 E <br> 3. Integration by parts Ex 11F <br> 4. Integration by parts Ex 11F |
| A | 03/07/23 | 1. Modelling with trig identities Ex 7G <br> 2. Mixed Exercise 7 <br> 3. Mixed Exercise 7 |  | 1. Partial fractions Ex 11G <br> 2. Differential equations Ex 11J <br> 3. Mixed Ex 11 |

