## ST EDMUND'S SCHOOL CANTERBURY

## PREPARING FOR A-LEVEL

## MATHEMATICS

Please look at the list of topics below. Start with the topics in which you are least confidentand work through the tutorials.

|  | Video | Exam Questions | Exa | Question oklet | Booklet Answers |  |
| :---: | :---: | :---: | :---: | :---: | :---: | :---: |
| 1a-1 Expanding brackets \& simplifying | Expandin Factorisin |  | estions | Expan <br> Factori |  | Soluti ons |
| 1a-1 Expanding brackets (triple brackets) | Expand <br> Bracket |  | ons | Expandin <br> Brackets | riple | Soluti <br> ons |
| 1a-2 Surds | Surds | Exam | stion | Surds | Solutions |  |
| 1a-3 Rules of indices | Indices | Exam | stion | Indices | Solutions |  |
| 1a-3 Rules of indices (fractional and negative) | Fraction Negative |  | Exam <br> Questions | Fractiona Negative |  | Solut ions |
| 1b-1 Factorising expressions | Expand <br> Factorisi |  | Exam <br> Questions | Expand and Factorise |  | Soluti ons |
| 1b-1 Factorising expressions (algebraic fractions) | Algebraic Fractions | Exam Questions |  | Algebraic Fractions |  | Solutio <br> ns |
| 1b-2 Completing the square | Completi Square | Exam <br> Questions |  | Completing the Square |  | Soluti ons |
| 1b-3 Solving quadratics | Solving Quadratics |  | Solving Quadratics |  |  | Solutions |
| 1b-3 Solving quadratics (formula) | Quadratic Formula | Exam <br> Ques |  | Quadratic Formula |  | Solutio ns |
| 1b-3 Solving quadratics (harder factorising) | Factorising <br> Quadratic | Harder Ex | Exam <br> Questions | Factorising Harder Quadratics |  | Solut ions |
| 1b-4 Sketching quadratic graphs | Drawing Quadratic Graphs |  |  | Quadratic Graphs |  | Solutions |
| 1c-1 Solving linear simultaneous equations | Simultaneous <br> Equations |  | Exam <br> Questions | Simultaneous Equations |  | Soluti ons |
| 1c-2 Solving non-linear simultaneous equations | Quadratic Simultaneous Equations |  | Exam <br> Question | Quadratic Simultaneo Equations |  | $\begin{aligned} & \hline \underline{\text { Solu }} \\ & \text { tion } \\ & \underline{s} \\ & \hline \end{aligned}$ |
| 1c-3 Solving simultaneous equations graphically | Solving Simultaneous Equations Graphically |  | Solving Simultaneous Equations Graphically |  |  | $\begin{aligned} & \text { Sol } \\ & \underline{u t i o} \end{aligned}$ |


|  | ns |  |  |  |
| :---: | :---: | :---: | :---: | :---: |
| 1d-1 Linear Inequalities | Inequalities | hs | alities on Graphs | Solutions |
| 1d-2 Quadratic Inequalities | Quadratic Inequalities | Exam <br> Questions | Quadratic Inequalities | $\begin{aligned} & \text { Solutio } \\ & \underline{\text { ns }} \end{aligned}$ |
| 1e Sketching cubic and reciprocal graphs | Drawing Oth Cubic/Recipr |  | Cubic/Reciprocal Graphs | Soluti ons |
| 1f Translating graphs | Transforming $y=f(x)$ |  | sforming Graphs ) | Solutio <br> ns |





