New Year 12 Mathematics Transition Work

Thank you for applying to study Mathematics at Trinity Sixth Form. I would like to start by congratulating you on reaching this stage of your mathematical life. You have made a fantastic choice to study Mathematics at A-Level. It is a subject that will give you so much and I look forward to meeting you personally when school begins. In the meantime, I hope that this transition work can support your journey from Year 11 into Year 12.

The aim of this work is to ensure that you have the best possible foundations before starting your studies with us. I truly believe that Mathematics A-Level is one of the most rewarding subjects around and your studies will develop your determination and resilience while leaving you with a wealth of skills as you embark on the next stage of your life.

In the table on the next page, I have summarised the details of work that is available here. I hope that you enjoy A-Level Mathematics. I may be biased, but it really is a brilliant subject, and I am always jealous of students who are at your stage of this journey.

If you have any questions at all, either mathematical or logistical, then please do not hesitate to contact me at barton\_s@trinityhigh.com.

See you soon.

Mr S Barton,

Trinity CoE High School.

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| Task | Presentation | Extra Content |
| 1 | Indices. Read and complete exercises in the document. | Interesting Fractions. |
| 2 | Surds. Read and complete exercises in the document. | Vectors and lines. |
| 3 | Algebraic Manipulation 1 – Expanding.  Read and complete exercises in the document. | Straight Line Problems |
| 4 | Algebraic Manipulation 2 – Factorising.  Read and complete exercises in the document. | Always fives problem. |
| 5 | Algebraic Manipulation 3 - Rearranging.  Read and complete exercises in the document. | Line sketching problems |
| 6 | Solving Equations.  Read and complete exercises in the document. | * Hidden Quadratics * Cubics |
| 7 | Sketching. Read and complete exercises in the document. | Intersecting lines and curves. |
| 8 | Pixl. Final Preparation Check. Work your way through the booklet and use the links to fill any gaps that you have. | Tangents and turning points. |

Additional Content

There are many recorded lessons available here should you want to develop in a particular GCSE topic area.

<https://www.youtube.com/user/HEGARTYMATHS/videos>