Step up to A-Level Maths

The Hinckley
SIXTH FORM

This is a menu of tasks to help you get ready to study Mathematics at A-Level. Try to choose a 'balanced diet' of activities each week to ensure variety in your learning. Keep your completed work organised in a folder so that you can submit your transition work during your first Mathematics lesson.

Short Video Clips (less than 10 minutes)

Each of these clips bridges the gap between GCSE and A-Level Mathematics. Watch the videos and make notes on any content you may need to revise over ready for the start of the course.

Surds (Addition/Subtraction) - Video		Fractional Indices - Video	
Surds (Rationalising Denominators) - Video		Negative Indices - Video	
Simultaneous Equations (Non-Linear) - Video		Distance Between Two Points - Video	
Changing the Subject – Video		Midpoint of a Line - Video	
Solving Quadratics by Factorisation - Video		Equation of a Line - Video	
Solving Quadratics (Completing the Square) - Video		Sine Rule (Sides and Angles) - Video	
Solving Quadratics (Quadratic Formula) - Video		Cosine Rule (Sides and Angles) - Video	

Websites

Explore the following websites that will be extremely useful over the course of the next two years as you study A-Level Mathematics. Have a look and see what the different websites have to offer. How could you utilise these websites?

TL Maths		Physics and Maths Tutor		Underground Mathematics	

Books and Other Longer Reads

The variation in these books will show you the content studied in A-Level Mathematics to books that will captivate you with fascinating maths facts and problems.

A-Level Maths AQA Complete Revision & Practice	Alex's Adventures in Numberland	The Ultimate Mathematical Challenge
CGP Books	Alex Bellos	The UK Maths Trust

Questions to Practice

The questions below are designed to give you practice on essential skills for A-Level Maths. Please use the links below for the topics you need to practice by answering the questions and marking them using the answers provided.

Surds (Addition/Subtraction) – Questions – Answers
Surds (Rationalising Denominators) – Questions – Answers
Simultaneous Equations (Non-Linear) – Questions – Answers
Changing the Subject – Questions – Answers
Solving Quadratics by Factorisation – Questions – Answers
Solving Quadratics (Completing the Square) – Questions – Answers
Solving Quadratics (Quadratic Formula) – Questions – Answers
Fractional Indices – Questions – Answers
Negative Indices – Questions – Answers
Distance Between Two Points – Questions – Answers
Midpoint of a Line – Questions – Answers
Equation of a Line – Questions – Answers
Sine Rule (Sides and Angles) – Questions – Answers
Cosine Rule (Sides and Angles) – Questions – Answers

Scan here to view
the Q&A links online

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