



SIXTH FORM BRIDGING WORK & YEAR 11 DISCOVERY



Get Ready for Maths & Further Maths

Subject mind-set and BIG picture thinking & links...

As technology continues to advance so too does mathematics, increasing its essential role in both everyday and corporate life. If you have a flair for numbers and enjoy maths you will have an opportunity to forge a career at the forefront of technological advancement.

A Level Maths is an interesting and challenging course which extends the methods you learned at GCSE and includes other applications such as Statistics, Mechanics and Decision Mathematics.

Please explore the following tasks:

Work to complete

Sparx Maths GCSE to A-level Transition booklet

You can access supportive videos through your Sparx school accounts

Recommended text books

Maths:

- Pearson Edexcel AS and A level Mathematics Pure Mathematics Year 1/AS Textbook
- Pearson Edexcel AS and A level Mathematics Statistics and Mechanics Year 1/AS Textbook

Further Maths:

- Pearson Edexcel AS and A level Further Mathematics Core Pure Mathematics Book 1/AS Textbook
- Pearson Edexcel AS and A level Further Mathematics Decision Mathematics Book 1/AS Textbook

Recommended websites you should be familiar with

www.physicsandmathstutor.com

- Whole past papers
- Questions by topic
- Cheat Sheets and instructional videos

www.alevelmathsrevision.com

- Exam questions by topic
- Specific A* exam questions

www.madasmaths.com

- Maths booklets with exam questions by topic and worked solutions

www.studywell.com

- Exam questions by topic
- Videos and tutorials for questions
- Whole practice papers

<https://www.youtube.com/c/hindsmaths>

<https://www.youtube.com/c/BicenMaths>

- Video lessons on each subchapter of the textbook if you need a topic retaught

Related magazines, blogs subject experts

Alex Bellos - Alex's adventures in numberland (Royal society talk on BBC iPlayer, Google talk on YouTube)

https://www.youtube.com/watch?v=WBqWYJUc_rc

Hans Rosling - The Joy of stats (full episode sometimes on BBC iPlayer, clips on YouTube)

<https://www.youtube.com/watch?v=en2ix9f8ceM&list=PLBE30C2B39FE4BD1C>

Hans Rosling - The best stats you've ever seen. (YouTube Ted talks)

<https://www.youtube.com/watch?v=hVimVzgtD6w>

Richard P. Feynman- Character of Physical law (Series of 7 lectures)

https://www.youtube.com/watch?v=j3mhkYbznBk&list=PLez3PPtnpncQLg_H7f6T9yJmJ2aCIBUHS

Short interesting clips about Maths

<https://www.youtube.com/@numberphile>

Recommended books & revision guides

There are lots of great books on maths including;

- **How Not to Be Wrong: The Power of Mathematical Thinking**
by [Jordan Ellenberg](#)
- **Humble Pi: A Comedy of Maths Errors Paperback**
by [Matt Parker](#)
- **Alex's Adventures in Numberland**
by [Alex Bellos](#)
- **Godel, Escher, Bach: An Eternal Golden Braid Paperback**
by [Douglas Hofstadter](#)
- **From Here To Infinity Paperback**
by [Ian Stewart](#)
- **The Man Who Loved Only Numbers: The Story of Paul Erdos and the Search for Mathematical Truth: The Story of Paul Erdős and the Search for Mathematical Truth Paperback**
by [Paul Hoffman](#)
- **The Code Book: The Secret History of Codes and Code-breaking**
by [Simon Singh](#)
- **A Mathematician's Apology (Canto Classics) Paperback**
by [G. H. Hardy](#)

Possible virtual places to visit

<https://www.mrbartonmaths.com/blog/links-best-maths-websites-world/>

Teachers contact for questions and more information

KS5 Curriculum Leaders Corin.Allen@shoreham-academy.org (MAT Leave until Sept 2026)

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It is time to look forward and explore the courses you planning to study in the future.

Getting organised: Begin to set up a Learning folder digital or at home for your chosen subjects.

(Shoreham Sixth Form has a way of organising this)