



Year 12 into 13 Summer Task 2024

Subject: Further maths

Summer Task instructions:

For **Core Pure**, complete the task set on Dr Frost. You must answer all questions to the best of your ability.

Do your work on separate paper with full working shown.

This task must be submitted via Dr Frost before your first Core Pure lesson in September.

Do not leave questions unattempted and make use of the support available to you as detailed below.

For **Decision**, complete the 2 exam questions attached and bring them to your first Decision lesson in September.

Support:

You can email maths@springwoodhighschool.co.uk any questions relating to the task or the A-level course.

www.examsolutions.net is also a useful website which provides video tutorials on each topic.

Other websites where you can get support or additional reading

- <https://www.drfrostmaths.com/>
- <https://www.mathsgenie.co.uk/newalevel.html>
- <https://sites.google.com/site/tlmaths314/home/a-level-maths-2017>
- <https://crashmaths.com/>
- <https://www.physicsandmathstutor.com/>
- <https://amsp.org.uk/teachers/11-16-maths/resources>
- <https://amsp.org.uk/resource/gcse-alevel-transition-resources>
- <https://alevelmathsrevision.com/bridging-the-gap/>
- <https://amsp.org.uk/teachers/a-level/resources>
- <https://amsp.org.uk/teachers/a-level-further/resources>
- <https://mei.org.uk/miotm>
- <https://brilliant.org/>
- <https://plus.maths.org/content/>
- <https://www.bbc.com/future/>
- <http://chalkdustmagazine.com/>
- <http://www.numberphile.com/>

- <https://www.mathscareers.org.uk/>
- <https://interestingengineering.com/>
- <https://www.madasmaths.com/>
- <https://colmanweb.co.uk/problemsolving/ukmt.htm>
- <https://projecteuler.net/>
- <https://www.desmos.com/calculator>
- <https://integralmaths.org/ritangle/>
- <https://padlet.com/cloizou/ks5-revision-resources-rvdio7zyclic2hi>

Books:

- *CGP Head Start to A Level Maths* book
- How long is a piece of string - Rob Eastaway
- The Art of Statistics by David Spiegelhalter
- Math on Trial by Coralie Colmez and Leila Schneps
- Factfulness by Hans Rosling
- The Undercover Economist by Tim Harford
- Why do Buses Come in Threes? by Rob Eastaway
- Maths on the back of an Envelope by Rob Eastaway
- The Life Changing Magic of Numbers by Bobby Seagull
- Invisible Women by Caroline Criado Perez
- The Perils of Perception by Bobby Duffy
- Humble Pi by Matt Parker
- Music of the Primes by Marcus du Sautoy
- Fermats Last Theorem by Simon Singh
- 17 Equations that Changed the World by Ian Stewart
- 1089 And All That by David Acheson
- Alex's Adventures in Numberland by Alex Bellos