



## **DCS - A Level Further Mathematics Preparation**

### **Bridging the Gap from GCSE to A Level**

If you are planning to study A Level Mathematics at DCS, the “Sparx Maths – Transition Workbook” **must** be completed and submitted on the first day back when you start the course in September. The same (not extra) is required for Further Mathematics, with one additional worksheet for those that attend the Taster Day.

All solutions to the exercises, will be posted online towards the end of the summer. For those of you who used Sparx Maths at your secondary school should still have access over the summer and can do independent study using the codes in the booklet, to further sharpen any skills that you aren't confident on. All can access Dr Frost Maths and Corbett Maths videos on YouTube for free.

Please email Mr. Sakaria on [S.Sakaria@derbycathedralschool.org.uk](mailto:S.Sakaria@derbycathedralschool.org.uk) if you require an electric copy of the Transition Workbook, the additional worksheet or if you have any questions.

### **Published Materials**

There is some wonderful mathematical books that would be great to broaden your thinking behind maths and would place you in great stead if you are looking at potentially studying maths beyond A Level. Some that we recommend are:

- Fermat's Last Theorem – Simon Singh
- The Simpsons and their Mathematical Secrets – Simon Singh
- Humble Pi – Matt Parker
- How Not to be Wrong: The hidden Maths of everyday life – Jordan Ellenberg

### **Audio**

If you prefer listening instead of reading literature, some radio/podcasts/videos/documentaries that we recommend are:

- BBC Maths documentaries
  - The History of Maths <https://www.bbc.co.uk/programmes/b00dxjls>
  - Hannah Fry's Mysterious World of Maths <https://www.bbc.co.uk/programmes/b0bn9dth>
- Ted Talks – Maths Playlist [https://www.ted.com/playlists/189/math\\_talks\\_to\\_blow\\_your\\_mind](https://www.ted.com/playlists/189/math_talks_to_blow_your_mind)
- Numberphile Youtube channel: <https://www.youtube.com/user/numberphile>
- Eddie Woo YouTube Channel: <https://www.youtube.com/user/misterwootube>

### **Free Further Maths Taster Session (online)**

<https://furthermaths.wales/further-maths-taster-session-2024/>

### **Stationery**

*(Please see A Level Mathematics Preparation. The exact same applies here)*

We're really looking forward to entering the next chapter in your Mathematical journey! If you have any questions please do not hesitate to get in touch.

**Mrs. Heald**

**Head of Mathematics**

[S.Heald@derbycathedralschool.org.uk](mailto:S.Heald@derbycathedralschool.org.uk)