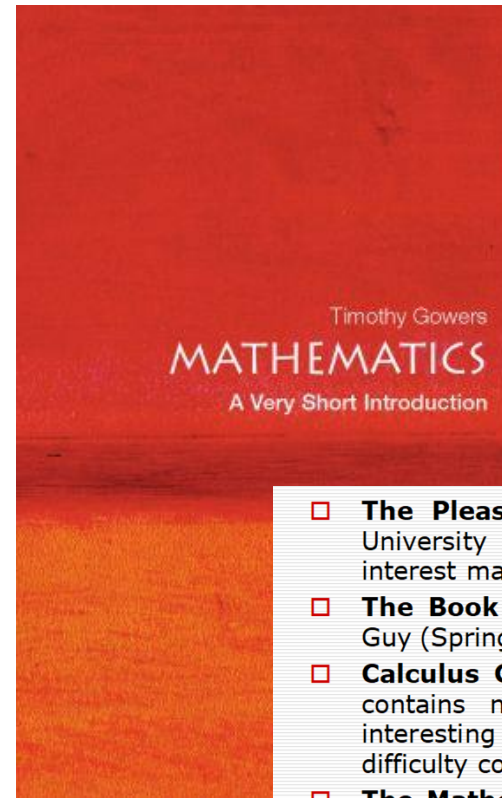


Super-Curricular Guide: Maths





Read!



- ❑ **The Pleasures of Counting** by T. W. Korner (Cambridge University Press 1996); showing the kinds of problems that interest mathematicians.
- ❑ **The Book of Numbers** by John H. Conway and Richard K. Guy (Springer-Verlag 1998).
- ❑ **Calculus Gems** by G. F. Simmons (McGraw Hill). This book contains nuggets of beautiful mathematics placed in an interesting historical context. Topics of varying levels of difficulty cover various aspects of calculus.
- ❑ **The Mathematical Experience** by P.J. Davis and R. Hersch (Birkhauser 1997).
- ❑ **The Shape of Space** by Jeffrey R. Weeks (Dekker 2001). An entertaining introduction to topology and non-Euclidean geometry.
- ❑ **Concepts of Modern Mathematics** by Ian Stewart (Penguin 1975). Ian has written several other suitable books such as From Here to Infinity (Oxford Paperbacks, 1996), Nature's Numbers (Phoenix 1998), and Does God play Dice? (Penguin 1997).
- ❑ **What is Mathematics?** by Richard Courant and Herbert Robbins, 2nd ed. (Oxford University Press, USA 1996)
- ❑ **The Music of the Primes: Why an Unsolved Problem in Mathematics Matters** by Marcus du Sautoy (HarperPerennial, 2004).
- ❑ **Indra's Pearls: The Vision of Felix Klein**, by David Mumford, Caroline Series, David Wright (Cambridge University Press, 2002); beautiful pictures, starts with Complex Numbers.



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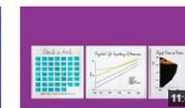
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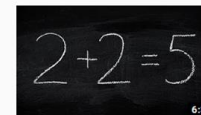
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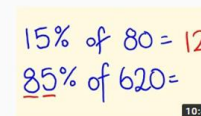
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The FMSP has worked with Peter Rowlett (lecturer at Nottingham Trent University and presenter of the 'Travels in a Mathematical World' podcast series) and Katie Steckles (of Think Maths and Numberphile) to produce a series of podcasts called "Taking Maths Further".

Every episode takes a topic from the A level Maths or Further Maths syllabus and looks at its applications. Each episode includes an interview with someone working using related mathematics. Each podcast has an associated puzzle and further reading designed to stimulate students' interest in mathematics outside of the curriculum.

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