

## Recommended Reading (2 pages; 1/6/24)

### Further Maths extension

- (1) "Calculus" (Geoffrey Matthews; publisher: John Murray)
- (2) "Differential Equations" (Piaggio; publisher: G. Bell & Sons)
- (3) "e: the story of a number" (Eli Maor; publisher: Princeton)  
- can be read at the same time as studying A Level
- (4) "Euler - The Master of Us All" (William Dunham; publisher: The Mathematical Association of America)  
- assumes only A Level knowledge  
- includes a section on solving cubic and quartic equations
- (5) "Combinatorics - A very short introduction" (Robin Wilson; publisher: OUP)  
- covers a wide range of interesting problems  
- very little prior knowledge assumed
- (6) "How to think like a mathematician" (Kevin Houston; publisher: CUP)
- (7) "How to Make the World Add Up" (Tim Harford; publisher: The Bridge Street Press)  
- How Statistics can be misleading

### University level

- (8) Complex Analysis – An Introduction (Kevin Houston; publisher: "x to the power of n" [sic])
- (9) "Div, Grad, Curl, and all that (an informal text on vector calculus)" (H.M. Schey; publisher: W.W. Norton)

- avoids non-essential mathematical rigour
- assumes knowledge of vector product, partial derivatives and multiple integrals

(10) "Dynamics and Relativity" (Stephen Siklos, CU Lecture Notes – Lent term 2011)

(11) "Mechanics" (Smith and Smith; publisher: John Wiley)

(12) "Classical Mechanics" (R.D. Gregory; publisher: CUP)

(13) "Profound Physics": [Profound Physics – For Those Wanting To Learn Physics Profoundly](#)

- website has some free articles on Relativity etc