

Year 12 physics – summer reading list

The following is a list of books that we recommend for students studying AS & A2 physics at QEGS

The following are available in the library. Students are not usually allowed to borrow books over the summer, but if you take this list to Mrs Roper she has agreed that you can take these out. However, if they are not returned we will be chasing you and you will have to pay for the book.

- Surely You're Joking Mr Feynman Richard Feynman
- Quantum – A Guide for the Perplexed Jim Al-Khalili
- The Elegant Universe Brian Greene
- Back of the Envelope Physics Schwartz
- The New World of Mr Tompkins Gamow and Stannard
- Einstein for Beginners Schwartz and McGuinness
- Quantum for Beginners McEvoy and Zarate
- Hawking for Beginners McEvoy and Zarate

The following are not available in the school library, but may be available in your local library. In no particular order...

- Six Easy Pieces: Fundamentals of Physics Explained Richard Feynman
- Physics of the Impossible: A Scientific Exploration of the World of Phasers, Force Fields, Teleportation and Time Travel Michio Kaku
- We Need to Talk About Kelvin: What everyday things tell us about the universe Marcus Chown
- Why Does $E=mc^2$?: (and Why Should We Care?) Brian Cox and Jeff Forshaw
- The Quantum Universe: Everything that can happen does happen Brian Cox and Jeff Forshaw
- How to Teach Quantum Physics to Your Dog Chad Orzel
- The Pleasure of Finding Things Out Richard Feynman
- In Search Of Schrodinger's Cat John Gribbin
- A Short History of Nearly Everything Bill Bryson
- Particle Physics: A Very Short Introduction Frank Close
- Philosophy of Science: A Very Short Introduction Samir Okasha
- Quantum Physics: A Beginner's Guide Alastair I.M. Rae
- Chaos:making a new science James Gleick
- Farewell to Reality: How Fairytale Physics Betrays the Search for Scientific Truth Jim Baggott

We would like you to read at least one of these books over the summer ready to discuss/review/feedback in lessons early next term.