

Below are some suggestions of things you could do to help prepare and be ready for **A-Level Physics** which will expand your thinking and interests in the wider subject.

Read	Watch	Listen	Create
<p>Surely You're Joking Mr Feynman: Adventures of a Curious Character Richard Feynman was a Nobel Prize winning Physicist., get insight into his life's work including the creation of the first atomic bomb and his work in the field of particle physics.</p> <p>Moondust: In Search of the Men Who Fell to Earth</p> <p>One of the greatest scientific achievements of all time was putting mankind on the surface of the moon. Only 12 men made the trip to the surface, this is the personal accounts of the 9 of those astronauts.</p> <p>Quantum Theory Cannot Hurt You: Understanding the Mind-Blowing Building Blocks of the Universe</p> <p>Any Physics book by Marcus Chown is an excellent insight into some of the more exotic areas of Physics that require no prior knowledge.</p> <p>A Short History of Nearly Everything</p> <p>Bill Bryson's quest to find out everything that has happened from the Big Bang to the rise of civilization - how we got from there, being nothing at all, to here, being us.</p> <p>Thing Explainer: Complicated Stuff in Simple Words</p> <p>A book of illustrated cartoon diagrams that should appeal to the scientific side of everyone. A book of blueprints from everyday objects such as a biro to the Saturn V rocket and an atom bomb, each one meticulously explained BUT only with the most common 1000 words in the English Language.</p>	<p>Science Fictions Films</p> <ol style="list-style-type: none"> 1. Moon (2009) 2. Gravity (2013) 3. Interstellar (2014) 4. The Imitation Game (2015) 5. The Prestige (2006) <p>Online Clips / Series</p> <p>Minute Physics – Variety of Physics questions explained simply (in felt tip) in a couple of minutes. Addictive viewing that will have you watching clip after clip – a particular favourite of mine is “Why is the Sky Dark at Night?” https://www.youtube.com/user/minutephysics</p> <p>Wonders of the Universe / Wonders of the Solar System – Both available of Netflix as of 17/4/16 – Brian Cox explains the Cosmos using some excellent analogies and wonderful imagery.</p> <p>Shock and Awe, The Story of Electricity – A 3 part BBC documentary that is essential viewing if you want to see how our lives have been transformed by the ideas of a few great scientists a little over 100 years ago. The link below takes you to a stream of all three parts joined together but it is best watched in hourly instalments. Don't forget to boo when you see Edison. (alternatively watch any Horizon documentary – loads of choice on Netflix and the I-Player) https://www.youtube.com/watch?v=Gtp51eZkwol</p> <p>NASA TV – Online coverage of launches, missions, testing and the ISS. Plenty of clips and links to explore to find out more about applications of Physics in Space technology. http://www.nasa.gov/multimedia/nasatv/</p> <p>The Fantastic Mr. Feynman – I recommended the book earlier, I also cannot recommend this 1 hour documentary highly enough. See the life's work of the “great explainer”, a fantastic mind that created mischief in all areas of modern Physics. https://www.youtube.com/watch?v=LygleIXTpw</p> <p>Sixty Symbols Videos about Physics and Astronomy with real experts www.youtube.com/user/sixtysymbols</p>	<p>The Infinite Monkey Cage is a BBC Radio 4 comedy /popular science series. Hosted by physicist Brian Cox and comedian Robin Ince it is a "witty and irreverent look at the world according to science" https://www.bbc.co.uk/programmes/b00snr0w/episodes/downloads</p> <p>The Titanium Physicists A pod cast where academic guests are challenged to explain difficult ideas in accessible everyday terminology titaniumphysicists.brachioloopemedia.com</p> <p>Physics World Stories A podcast of experts discussing a variety of topics Podcast Archives – Physics World</p> <p>Everything you wanted to know about Podcasts by Physicist and BBC science presenter Jim Al-Khalili Answers the 6 most searched for Physics questions. Everything You Wanted To Know About Physics, with Prof Jim Al-Khalili Instant Genius on Acast</p> <p>Ask a Spaceman Astrophysicist Paul M Sutter answers listeners questions on space. Ask a Spaceman — Paul M. Sutter (pmsutter.com)</p>	<p>A diary/notebook/journal briefly summarising any scientific literature that you have engaged with over the summer. Do an analysis of the information including the source of the information and who the author was. Should this article be believed? Are there inherent biases involved?</p> <p>A series of flash cards on key Physics equations from GCSE.</p> <p>A folder ready for all your class work – a lever arch with the specification already in it is a great start.</p> <p>A weekly plan – what outside of lesson work will you be doing each week, how will this add up in the longer term over a half term, term or year.</p>