Subject	Pre GCSE/GCSE	GCSE Book/Broadcast /Competition	Post-16	Post-16 Book/Broadcast /Competition	Websites / Virtual Tours
Physics	<ul> <li>Visit a dark sky area at night and use an App like google sky to help you identify celestial objects</li> <li>Visit the Science Museum in London and explore the space gallery.</li> <li>Visit a local steam railway to find out how the locomotives work.</li> <li>Write a list of all the physical quantities you have ever measured and the unit you used in a Science lesson or somewhere else, like the kitchen. There may be more than one unit for each measurement or vice versa: eg length is measured in Centimetres.</li> <li>Research the work of Isaac Newton, which area(s) of physics did he make discoveries in? How were his discoveries received?</li> <li>Research the conflicting ideas around electricity. Who were Ampere, Volta and Galvani? Whose ideas were proved to be correct?</li> </ul>	Books:  • Stephen Hawking; Richard Feynman; Jim Al-Khalili.  Radio/Podcast:  • 'Physics Made Simple' BBC World Service - Physics Made Simple - Episode guide  • 13 Minutes to the Moon BBC World Service - 13 Minutes to the Moon, Apollo 13, S2 Ep.02 Death of the Odyssey  • Infinite Monkey Cage Podcast BBC Radio 4 - The Infinite Monkey Cage, Introducing You're Dead To Me - Series 2  YouTube: Royal Instituion videos e.g. Quantum Physics, Rollercoaster Science The Royal Institution - YouTube  Magazines: Cosmos Magazine  Competitions: British Physics Olympiad Experimental Project   British Physics OlympiadAA (bpho.org.uk)  Institute of Physics Olympiad Home   British Physics OlympiadAA (bpho.org.uk)	Use the Issacs physics website to practice problem solving from A-level concepts to university level material. "Ignoring air resistance, what is the minimum speed a grasshopper would need to jump over a log, with diameter D=30.0cm?"  Research a career that uses A-level physics.	Subscribe to the Physics Review magazine.  Books:     Peter Atkins - Galileo's Finger Introducing Quantum Theory: A graphic guide - J P McEvoy and Oscar Zarat     Brief Answers to the Big Questions: Stephen Hawking     Bill Bryson, A Short History of Nearly Everything     R.P. Feyman, The Character of Physical Law     The First Three Minutes - Steven Weinberg The Fifth Essence - Lawrence Krauss  YouTube:     YouTube:     YouTube Livestream   A Level Physics (alevelphysicsonline.com)  Podcasts: In our time In Our Time - Superconductivity - BBC Sounds - The Life Scientific BBC Sounds - The Life Scientific - Available Episodes Frontiers BBC Sounds - Frontiers - Available Episodes	The Science Museum Exploring Space   Science Museum  The Railway Museum National Railway Museum  Owlcation STEM - Owlcation  Physics World Home - Physics World  Isaac Physics Isaac Physics