






















Year 11-12

Resources to help you prepare for Science, Mathematics & Engineering A Level

 <p>Complete this course in which you will learn the physical processes behind climate variation around the world to better understand the causes of climate change.</p> <p><u>Causes of Climate Change</u> University of Bergen and Bjerknes Centre for Climate Research</p>	 <p>Listen to this radio programme in which BBC security correspondent Gordon Corera goes inside Britain's secret listening station.</p> <p><u>GCHQ Cracking the Code</u> BBC Sounds</p>	 <p>Read this article in which evolutionary biologist Barbara Natterson-Horowitz and writer Kathryn Bowers make the case for why parents – animal and human – should remain involved in the lives of their fully-grown offspring.</p> <p><u>Humans aren't the only ones that help out their adult kids</u> Ideas TED</p>	 <p>Watch this TED talk in which neuroscientist Robert Sapolsky asks the question: How can humans be so compassionate and altruistic – and also so brutal and violent?</p> <p><u>The biology of our best and worst selves</u> TED Talks – Robert Sapolsky</p>	 <p>Complete this course, which aims to demystify the aging process, and learn how our everyday behaviours are likely to affect our long-term musculoskeletal health.</p> <p><u>The science of staying active in old age</u> The University of Leeds, Sheffield & Newcastle</p>
 <p>Listen to this radio programme which explores why NASA's third bid to land on the moon was flawed from the start.</p> <p><u>13 Minutes to the Moon</u> BBC Sounds</p>	 <p>Read this article from a clinical psychologist which provides practical ways to overcome whatever life throws your way.</p> <p><u>8 tips to help you become more resilient</u> Ideas TED</p>	 <p>Listen to this radio programme in which Brian Cox meets some celebrity physics enthusiasts, including Alan Alda and Eddie Izzard.</p> <p><u>Physics Rocks</u> BBC Sounds</p>	 <p>Complete this course which explores the organic chemistry behind everyday things such as perfume, medicine and sport.</p> <p><u>Exploring Everyday Chemistry</u> University of York</p>	 <p>Watch this TED Talk which explores the science behind making cookies. Once you have watched this, why not try and make your own?</p> <p><u>The chemistry of Cookies</u> TED Talks – Stephanie Warren</p>
 <p>Complete this course which is an entertaining and illuminating exploration into the impact dentistry has on our lives.</p> <p><u>Discover Dentistry</u> The University of Sheffield</p>	 <p>Watch this TED talk which explains why surfers are masters of complicated physics.</p> <p><u>The Physics of surfing</u> TED Talk – Nick Pizzo</p>	 <p>Listen to this radio programme in which Susan Marling asks why the UK has the lowest proportion of female engineers in Europe.</p> <p><u>Britain's Hidden Talent: Women Engineers</u> BBC Sounds</p>	 <p>Listen to this radio programme which explores all sorts of science-related topics (including the Coronavirus).</p> <p><u>BBC Inside Science</u> BBC Sounds</p>	 <p>Watch this TED talk in which George Zaidan describes the physics behind this frustrating phenomenon.</p> <p><u>Why is ketchup so hard to pour</u> TED Talk – George Zaidan</p>

Year 11-12

Resources to help you prepare for Social Science & Humanities A Level

 <p>Read this article from marine scientist Roger Hanlon. In it he explores how the heck colour blind cephalopods – octopus, squid and others – achieve such a good colour match when they camouflage (in short: amazing distributed brains).</p> <p><u>Oddballs with high-level intelligence: a Q&A with Roger Hanlon about the amazing octopus Ideas TED</u></p>	 <p>Complete this course which will teach you how to solve encrypted maths puzzles, in which numbers are replaced by letters or symbols.</p> <p><u>Maths Puzzles: Cryptarithms, Symbolologies and Secret Codes Weizmann Institute of Science</u></p>	 <p>Watch this TED talk in which examines the pharmaceutical industry and its impact on doctors and the wider medical world.</p> <p><u>What doctors don't know about the drugs they prescribe TED Talk Ben Goldacre</u></p>	 <p>Complete this course and explore the diverse skills and knowledge required to be a nurse and find out where a career in nursing could take you.</p> <p><u>Introduction to Nursing: Bioscience, Psychology and Sociology University of Leeds</u></p>	 <p>Listen to this radio programme which tackles the big issue of lack od diversity in engineering. In the UK, 91% of jobs in the engineering industry are filled by men and 92% of jobs are filled by white people. So what can we do about it?</p> <p><u>BBC Live Wires How can we make UK engineering more diverse? BBC Sounds</u></p>
 <p>Complete this course which is ideal for anyone considering working in residential care homes or nursing. You will also learn about the 6 'Rs' of medicine administration: right patient, right medicine, right route, right dose, right time and resident's right to refuse.</p> <p><u>Understanding the key principals of medicine administration University of East Anglia</u></p>				

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