Year 11

Resources to help you prepare for Science, Maths and Engineering A Level – 20 points per box



Complete this course in which you will learn the physical processes behind climatevariation around the world to better understand the causes of climate change.Causes of Climate Change University of Bergen and Bjerknes Centre for Climate Research	Listen to this radio programme in which BBC security correspondent Gordon Corera goes inside Britain's secret listening station. <u>GCHQ Cracking the Code</u> BBC Sounds Read this article from a clinical psychologist	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 full-grown offspring.	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? The biology of our best and worst selves TED Talks – Robert Sapolsky	Complete this course, which aims to demystify the ageing process, and learn how our everyday behaviours are likely to affect our long-term musculoskeletal health. The science of staying active in old age The Universities of Leeds, Sheffield and Newcastle
Listen to this radio programme which explores why NASA's third bid to land on the moon was flawed from the start. <u>13 Minutes to the Moon</u> BBC Sounds	which provides practical ways to overcome whatever life throws your way. <u>8 tips to help you become more</u> <u>resilient</u> <i>Ideas TED</i>	out their adult kids Ideas TED Listen to this radio programme in which Brian Cox meets some celebrity physics enthusiasts, including Alan Alda and Eddie Izzard. Physics Rocks	Complete this course which explores the organic chemistry behind everyday things such as perfume, medicine and sport.Exploring Everyday Chemistry University of York (starts 29th June)	Watch this TED talk which explores the science behind making cookies. Once you have watched this, why not try and make your own? The chemistry of Cookies TED Talks – Stephanie Warren
Complete this course which is an entertaining and illuminatingexploration into the impact dentistry has on our lives.Discover Dentistry The University of Sheffield Available now or 15th June 2020	Watch this TED talk which explains why surfers are masters of complicated physics. The Physics of surfing TED Talk – Nick Pizzo	BBC Sounds Listen to this radio programme in which Susan Marling asks why the UK has the lowest proportion of female engineers in Europe. Britain's Hidden Talent: Women Engineers BBC Sounds	Listen to this radio programme which explores all sorts of science-related topics (including the Coronavirus). BBC Inside Science BBC Sounds	Watch this TED talk in which George Zaidan describes the physics behind this frustrating phenomenon. Why is ketchup so hard to pour TED Talk – George Zaidan

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Read this article from marine scientist Roger Hanlon. In it he explores how the heckcolour-blind cephalopods — octopus, squid and others — achieve such a good colour match when they camouflage (in short: amazing, distributed brains).Oddballs with high-level intelligence: a Q & A with Roger Hanlon about the amazing octopus	Complete this course which will teach you how to solve encrypted maths puzzles, in which numbers are replaced by letters or symbols. Maths Puzzles: Cryptarithms, Symbologies and Secret Codes Weizmann Institute of Science (starts on 15 th June)	Watch this TED talk in which Angelina Arora shares how a lasting combination of curiosity and strategically applied science could help solve the world's problems.What creating a toxin-free plastic taught me about problem-solving TED Talk – Angelina Arora	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. Introduction to Nursing: Bioscience, Psychology, and Sociology University of Leeds Starts 29 th June 2020	Listen to this radio programme which tackles the big issue of lack of 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? BBC Live Wires How can we make UK engineering
	Watch this TED talk which examines the pharmaceutical industry and its impact on doctors and the wider medical world. What doctors don't know about the drugs they prescribe TED Talk – Ben Goldacre	working in residential of about the 6 'Rs' of med	which is ideal for anyone considering care homes or nursing. You will also learn dicine administration: right patient, right right dose, right time and resident's right me administration	more diverse? BBC Sounds