Year 11-12

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



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.

Causes of Climate Change University of Bergen and Bjerknes Centre for Climate Research

> **Listen** to this radio programme which explores why NASA's third bid to land on

13 Minutes to the Moon BBC Sounds



Complete this course which is an entertaining and illuminating

exploration into the impact dentistry has on our lives.



Listen to this radio programme in which BBC security correspondent

Gordon Corera goes inside Britain's secret listening station.

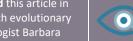
GCHQ Cracking the Code **BBC Sounds**



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.

Humans aren't the only ones that help out their adult kids Ideas TED



the guestion: 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 aging process, and

learn how our everyday behaviours are likely to affect our long-term musculoskeletal health.

The science of staying active in old

The University of Leeds, Sheffield &



the moon was flawed from the start.

ways to overcome whatever life throws your way.

8 tips to help you become more

Ideas TED

Watch this TED talk which explains why surfers are masters of complicated physics.

Read this article

psychologist which

provides practical

from a clinical

The Physics of surfing TED Talk – Nick Pizzo



Li**sten** to this radio programme in which Brian Cox meets some celebrity

Listen to this radio

programme in which

Susan Marling asks

why the UK has the

physics enthusiasts, including Alan Alda and Eddie Izzard.

lowest proportion of female

Britain's Hidden Talent: Women

engineers in Europe.

Physics Rocks BBC Sounds

Engineers

BBC Sounds



Complete this course which explores the organic chemistry behind

Watch this TED talk in

Robert Sapolsky asks

everyday things such as perfume, medicine and sport.

Exploring Everyday Chemistry University of York

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



BBC Inside Science

BBC Sounds

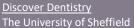
Listen to this radio programme which explores all sorts of science-related topics

(including the Coronavirus).

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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





... be remarkable





Year 11-12

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



Read this article 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).

Oddballs with high-level intelligence: a Q&A with Roger Hanlon about the amazing octopus

Ideas TED



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



Watch this TFD talk in 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



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

Introduction to Nursing: Bioscience, Psychology and Sociology University of Leeds



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?

BBC Live Wires How can we make UK engineering more diverse? BBC Sounds



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.

Understanding the key principals of medicine administration University of East Anglia





