applied science



What is Science?

https://www.youtube.com/watch?v=hDQ8ggroeE4&feature=emb err watch on yt

Why choose Applied Science? https://www.youtube.com/watch?v=Kr6T1ylZxok

Online Courses

These lessons cover some of the content you will have studied at GCSE. Look at "Human circulatory system", "Introduction to the Periodic Table" and "Wave structure and properties" https://www.stem.org.uk/remote-lessons/key-stage-4

A free online science course about the human body and how it works. <u>https://www.futurelearn.</u> <u>com/courses/what-is-the-body</u>

Take a Tour of the Cell in this online course from the Open University

https://www.open.edu/openlearn/science-maths-technology/science/tour-the-cell/content-section-0

What are waves? <u>https://www.open.edu/openlearn/science-maths-technology/what-are-waves/content-section-0</u>

Discovering Chemistry <u>https://www.open.edu/openlearn/science-maths-technology/chemistry/</u> discovering-chemistry/content-section-overview?active-tab=description-tab



A useful interactive periodic table: <u>https://www.rsc.org/periodic-table</u>

STEM.org.uk provide a range of science activities you can try: <u>https://www.stem.org.uk/</u> resources/elibrary/resource/33207/life-freezer-suitable-home-teaching

More activities can be found here: <u>https://www.stem.org.uk/resources/collection/3999/</u> <u>chemistry-activities</u>



Eden TV

 You can find out why an elephant has a trunk <u>https://eden.uktv.co.uk/blog/article/</u> why-do-elephants-have-trunk/ Or why a paper cut is so painful <u>https://eden.uktv.</u> <u>co.uk/blog/article/why-do-paper-cuts-hurt-</u> <u>so-much/</u>

New Scientist Live - Each week, there are three talks available for free – one talk aimed at school students, one for families and one by a

world-leading scientist or author.

<u>https://www.youtube.com/newscientist</u>

Homeostasis and glucose: a short you tube clip about regulation of blood glucose

- <u>https://www.youtube.com/</u> watch?v=X9ivR4y03DE
- Professor Dave explains how to carry out titrations <u>https://www.youtube.com/</u> <u>watch?v=dLNsPqDGzms</u>



Suggested Reading & Podcasts 🥑

Radio

BBC Sounds Radio 4 Frontiers- In the first episode, Geoff Watts visits the Human Microbiome Project in the US where they're studying the genetics of bacteria which live on the human body

 <u>https://www.bbc.co.uk/sounds/play/</u> <u>b011jv8r</u>

Podcasts

A complete set of podcasts exploring all the elements in turn.

• <u>https://www.chemistryworld.com/1925.</u> <u>more?navcode=268</u>

A free series of podcasts based on the periodic table produced by the BBC:

 <u>https://www.bbc.co.uk/programmes/</u> p01rcrn6

TV & Film Ĕ

- Ted Talks Just how small is an atom? https://www.ted.com/talks/jon_bergmann_just how small is an atom
- Ted Talks How big is a mole? <u>https://www.</u> ted.com/talks/daniel_dulek_how_big_is_a mole_not_the_animal_the_other_one

The Infinite Monkey Cage featuring Brian Cox on BBC Radio 4. Look out for the Anniversary of the Periodic Table, Clever Creatures, Microbes: Secret Rulers of the World? and The Science of Everyday Life

 <u>https://www.bbc.co.uk/programmes/</u> b00snr0w/episodes/player?page=2

Suggested reading

An article on using a colorimeter to find the concentration of a solution

 <u>https://www.ehow.co.uk/how_5256752</u> <u>use-colorimeters.html</u>

An article on Homeostasis and the control of blood glucose in the body

- <u>https://www.stem.org.uk/system/</u> files/elibrary-resources/legacy_files_ migrated/17466-catalyst_14_3_192_edited. pdf
- Planet Earth Sir David Attenborough (BBC iPlayer) <u>https://www.bbc.co.uk/</u> programmes/b006mywy
- Our Planet Sir David Attenborough (Netflix) <u>https://www.netflix.com/gb/</u> <u>title/80049832</u>

Course Specifications

Extended Certificate - Download Pearson Applied Science Specification Diploma - Download Pearson Applied Science Specification





www.bsfc.ac.uk/newstarters