applied science.





BTEC Preparation Pack

https://www.youtube.com/watch?v=hDQ8ggroeE4&feature=emb_err_watch_on_yt

Why choose Applied Science? https://www.youtube.com/watch?v=Kr6TlylZxok

Online Courses Q

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. https://www.futurelearn.com/courses/what-is-the-body

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

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



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

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

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



Eden TV

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

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.

https://www.youtube.com/newscientist

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

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



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

 https://www.bbc.co.uk/sounds/play/ b011jv8r

Podcasts

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

 https://www.chemistryworld.com/1925. more?navcode=268

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

 https://www.bbc.co.uk/programmes/ p01rcrn6 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

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

Suggested reading

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

 https://www.ehow.co.uk/how 5256752 use-colorimeters.html

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

 https://www.stem.org.uk/system/ files/elibrary-resources/legacy_files_ migrated/17466-catalyst_14_3_192_edited. pdf

TV & Film Ě

- 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? https://www.ted.com/talks/daniel_dulek_how_big_is_a mole not the animal the other one
- Planet Earth Sir David Attenborough (BBC iPlayer) https://www.bbc.co.uk/programmes/b006mywy
- Our Planet Sir David Attenborough (Netflix) https://www.netflix.com/gb/title/80049832

Course Specifications



<u>Extended Certificate - Download Pearson Applied Science Specification</u>

<u>Diploma - Download Pearson Applied Science Specification</u>



