



Year 11

Year 12

Transition



Applied Science



Something to think about...

What is the one scientific breakthrough that would provide the biggest benefit to humanity? The biggest threat?
Cells in the human body are regularly replaced, for example, skin cells only exist for about two weeks. Does this mean you don't have the same body throughout your life?



Something to read...

<https://www.khanacademy.org/science/high-school-biology/hs-human-body-systems/hs-body-structure-and-homeostasis/a/tissues-organs-organ-systems>

The waves section <https://www.physicsclassroom.com/mmedia>



Something to listen to...

After watching this, your brain will not be the same <https://www.youtube.com/watch?v=LNHBMFCzznE>

The incredible chemistry powering your smartphone - https://www.youtube.com/watch?v=PmY1Dr2iQ_Q



Advanced reading...

Chemistry - <https://www.khanacademy.org/science/chemistry/periodic-table>

Biology - <https://www.khanacademy.org/science/high-school-biology/hs-human-body-systems/hs-body-structure-and-homeostasis/a/tissues-organs-organ-systems>



Something to think about...

2 out of every 10 jobs in the UK are part of the Creative Industries - What are the different branches of the art and design industries?



Something to read...

The Royal Academy of Arts (www.royalacademy.org.uk)



Something to listen to...

Podcasts that transport you... TATE galleries walk of Art podcasts -

<https://www.tate.org.uk/art/tate-britains-great-art-walks>



Advanced reading...

AQA Art and design student handbook published by Nelson Thomes.

Crafts Magazine for all aspects of art, craft and design (www.craftscouncil.org.uk)

Art/Textiles



Something to think about...

Do blind people dream in visual images?
Where in my body is the original cell from which I was formed?
Are humans becoming victims of their own success?



Something to read...

This Is Biology: The Science of the Living World. Ernst Mayr
The Selfish Gene. Richard Dawkins
<http://www.bmj.com> - The website of the British Medical Journal



Something to listen to...

<http://royalsociety.org> - Podcasts, news and interviews about recent developments
<https://www.bbc.co.uk/iplayer/categories/science-and-nature/featured> - BBC iPlayer
<https://www.bbc.co.uk/sounds/search?q=biology>



Advanced reading...

http://www.bbc.co.uk/news/science_and_environment - The BBC news page for Science
<https://www.who.int/> -The World Health Organisation

Biology



Something to think about...during the summer months there are normally many festivals which take place in the UK. At the end of the event, there are thousands of tents and camping equipment abandoned by festivalgoers. Consider advising the festival organisers how to deal with the aftermath of the event, think about what support they would they require?



Something to read...

www.bbc.co.uk/news/business - constantly updates.



Something to listen to...Things to listen to – Business links – making fashion sustainable <https://www.bbc.co.uk/programmes/m000dgcn>, is the UK up for sale?

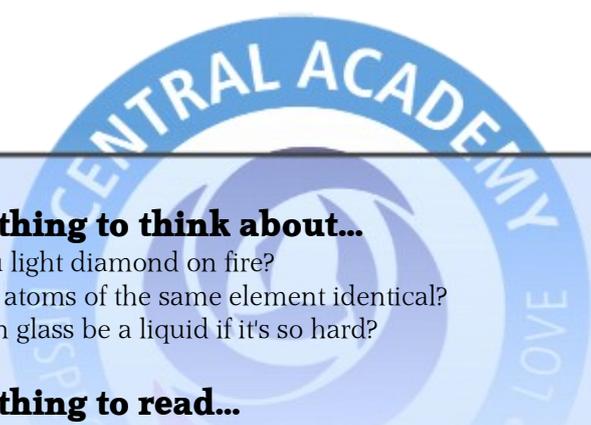
<https://www.bbc.co.uk/programmes/m000d8t4> and of course there is from Dragon's Den on iPlayer; You tube Entrepreneurship & Intrapreneurship, from BBC iPlayer;



Advanced reading...

The Undercover Economist by Tim Hartford is an enjoyable read, the book or audiobook is broken into chapters and you can select what you read.

Business



Chemistry



Something to think about...

Can you light diamond on fire?
Are two atoms of the same element identical?
How can glass be a liquid if it's so hard?



Something to read...

The Chemistry Book: From Gunpowder to Graphene, 250 Milestones in the History of Chemistry (Sterling Milestones). Derek B Lowe

Something to listen to...

https://www.ted.com/talks/jakob_magolan_a_crash_course_in_organic_chemistry?language=en
<http://royalsociety.org> - Podcasts, news and interviews about recent developments



BBC Podcasts. 'Chemistry' search in BBC podcasts brings up a variety of podcasts including: The Chemistry of Addiction, The life scientific of Ewine van Dishoeck on cosmic chemistry...



Advanced reading...

A Short History of Nearly Everything. Bill Bryson
Molecules: The Elements and the Architecture of Everything. Theodore Grey



Something to think about...

What is the most powerful single-word in the English language? What might the alphabet look like in a thousand years-time? Can anybody 'own' a word, phrase or language variety? Do people use language incorrectly, or are they simply using it differently?



Something to read...

www.jstor.org - where news meets research! The website updates regularly and has a 'Language and Literature' section.

Something to listen to...

'Word of Mouth' podcasts from Radio 4, narrated by Michael Rosen, exploring everything from how metaphors shape our life, to how charity organisations can use language to help those in crisis. For something lighthearted, but equally fascinating when it comes to looking at language in action, listen to 'Just a Minute' - a panel game in which the contestants are challenged to speak for one minute without hesitation, deviation or repetition.

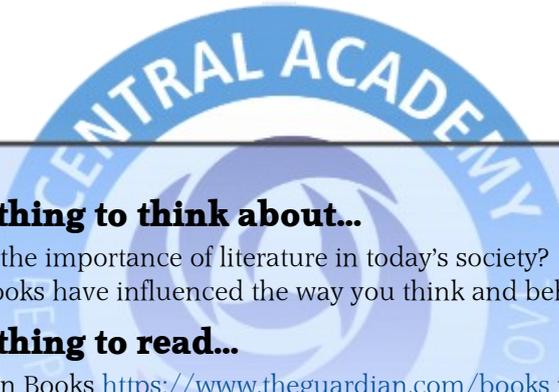


Advanced reading...

'Language: A feminist Guide' can be found at <https://debuk.wordpress.com/>. Professor, linguist and feminist, Deborah Cameron is a significant voice in the world of language study In her regular blog posts, she explores the complex relationship between the world that we live in, and the language that we use.



English Language



English Literature



Something to think about...

What is the importance of literature in today's society?
What books have influenced the way you think and behave?



Something to read...

Guardian Books <https://www.theguardian.com/books> for the latest book news, reviews and analysis.
The Poetry Foundation <https://www.poetryfoundation.org/uk> - Read a poem each day.



Something to listen to...

Try <https://www.bbc.co.uk/sounds/category/drama-classicandperiod> for a range of audiobooks; to fit in with our first topic, 'Love Around the Ages', try to think about how the theme of love is presented in different texts.
You could also try <https://www.bbc.co.uk/programmes/b006qp6p> for discussion and analysis of texts.



Advanced reading...

If you'd like to push yourself a little further go to https://owl.purdue.edu/owl/subject_specific_writing/writing_in_literature/literary_theory_and_schools_of_criticism/index.html for an introduction to literary theory.



Something to think about...

How geography can help humans understand the world and more importantly ensure that we can live successfully and sustainably for many years to come.



Something to read...

Factfulness: ten reasons we're wrong about the world - and why things are better than you think, hans rosling - Amazon
Prisoners of geography: ten maps that tell you everything you need to know about global politics



Something to listen to...

Planet earth (1&2) / blue planet (1&2) - iplayer
Forest 404 - podcast
Isn't that spatial - podcast
Blood diamond - iplayer / netflix



Advanced reading...

<http://www.nationalgeographic/>
<http://www.geolounge.com/>
<http://www.s-cool.co.uk/a-level/geography>

Geography



Something to think about...

Is knowledge of the past ever certain? Why do accounts of the same historical event differ? What determines how historians select evidence and interpret events? What problems are posed for the study of history by changes in language and culture over time?



Something to read...

A great starting point is History Today's website. There are articles on EVERYTHING historical – just email s.howarth@dallamschool.co.uk if there is an article you would like more of! Also, check out www.historyextra.com for lots of interesting articles.



Something to listen to...

'You're Dead To Me' is the history podcast for people who don't like history... and those who do. Greg Jenner brings together the best names in comedy and history to learn and laugh about the past on BBC Sounds



Advanced reading...

Katherine Brice and Michael Lynch, Access to History: The Early Stuarts and the English Revolution 1603-60

Nicholas Fellows and Mary Dicken, OCR A Level History: Britain 1603-1760

History



Something to think about...

How will the health and social care settings need to adapt and change in the future as a result of the Coronavirus Pandemic? Can better preparation be done to make the country more effective in case of an event like this in the future and save lives.



Something to read...

Leah Hazards - hard pushed - a midwives story **Leah Hazard** describes the challenges and dedication of those working in the NHS.

The Health Foundation has got lots of relevant articles linked to the health and social care sector which you can choose from to advance your learning ahead of A Level Study. <https://www.health.org.uk/journal-articles>



Something to listen to...

<https://www.bbc.co.uk/programmes/b09541k4>

<https://www.bbc.co.uk/iplayer/episode/m0005jpf/panorama-crisis-in-care-part-1-who-cares>

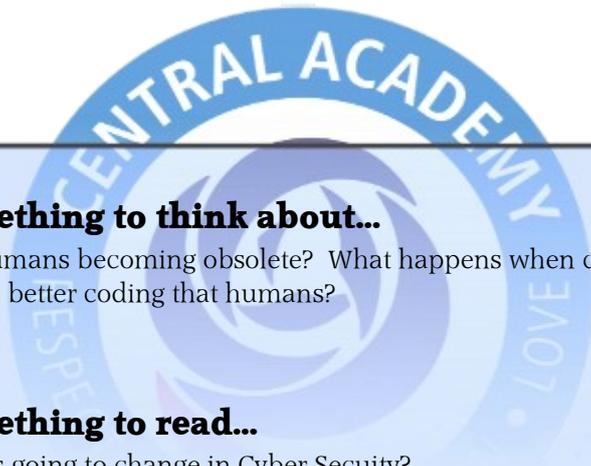


Advanced reading...

Becoming A Social Worker.-V Cree

Social Work – Themes, Issues and Critical Debates - R Adams

HSC



Something to think about...

Are humans becoming obsolete? What happens when computers design better coding than humans?



Something to read...

Whats going to change in Cyber Security?

<https://www.mimecast.com/blog/2018/12/whats-going-to-change-in-cybersecurity-in-2019-and-what-wont/>



Something to listen to...

A week in the life of Google: <https://www.youtube.com/user/ThisWeekInG>



Advanced reading...

Ontological approach toward cybersecurity in cloud computing

<https://dl.acm.org/doi/abs/10.1145/1854099.1854121>

IT



Something to think about...

Self defence is when you use force or violence in order to defend yourself, someone else or the property. Why can you be stopped from succeeding in this defence if you use too much force?



Something to read...

Read the article from Independent to find out in what circumstances the law would allow a person to kill a burglar

<https://www.independent.co.uk/news/uk/crime/kill-burglar-self-defence-what-law-allow-richard-osborn-brooks-reasonable-force-murder-householder-a8290441.html>



Something to listen to...

Watch two documentary about the case of Tony Martin called: 'The shot in the dark' (five parts)- <https://www.youtube.com/watch?v=wK0ATpJdeKg> and 'To kill the burglar' - <https://www.youtube.com/watch?v=BemcOAg53eM>

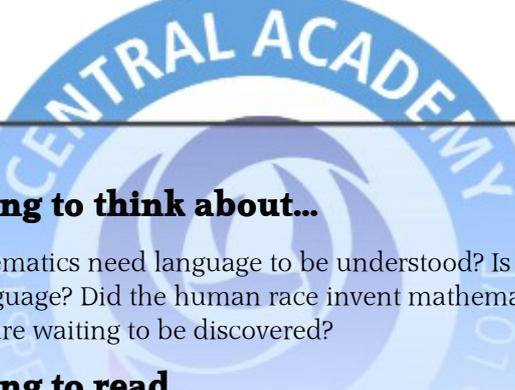


Advanced reading...

Open University-Introduction to European Law

<https://www.open.edu/openlearn/society-politics-law/introduction-european-union-law/content-section-0>

LAW



Something to think about...

Does Mathematics need language to be understood? Is mathematics in fact its own language? Did the human race invent mathematics or was it present in nature waiting to be discovered?



Something to read...

Simon Singh is an author, journalist and TV producer, specialising in science and mathematics. Visit his website (www.simonsingh.net) and read his blog covering everything from The Simpsons to moonwalking with Einstein.



Something to listen to...

'The secrets of Mathematics' is a series of podcasts from Oxford lecturers exploring the applications of mathematics, from medicine to economics and beyond. Available on iTunes



Advanced reading...

Please look at the following website, <https://www.khanacademy.org/math/>

It has many pre-course topics you can look at as to how GCSE progresses into As level maths.

Maths



Something to think about...

Photography has impacted society greatly – think about how it has in both positive and negatives way?



Something to read...

If You Want to Take Great Photographs by Henry Carroll – This will get you to practice and get started!



Something to listen to...

Podcasts that transport you... This week in Photo; The Digital Story

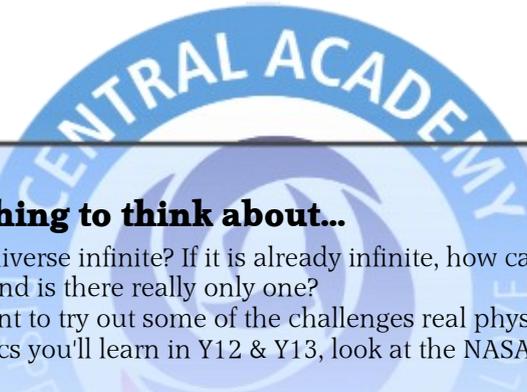


Advanced reading...

AQA Art and design student handbook published by Nelson Thomes

EYE (London, UK), Aperture

Photography/Graphics



Something to think about...

Is our universe infinite? If it is already infinite, how can it be getting any bigger? And is there really only one? If you want to try out some of the challenges real physicists tackle using the physics you'll learn in Y12 & Y13, look at the NASA π day challenges.



Something to read...

A great starting point is the Physics Review magazine. Lots of articles on the application of physics from mapping Earth's Gravity to the physics of measurements and building film props.



Something to listen to...

The 'Infinite Monkey Cage' is a light-hearted podcast available on BBC Sounds covering all things physics. 'Sixty Symbols' is a great series of (60!) videos on the symbols of physics and astronomy. Cassiopeiaproject...<https://www.youtube.com/watch?v=K6i-qE8AigE> Wonderful physics videos about the Standard Model.



Advanced reading...

Books include 'Einstein for Dummies' and 'String Theory for Dummies'

Physics



Something to think about...

What influence do the public have on politics?
How is Boris Johnson managing as Prime minister?
What is going on in the 2020 Presidential campaigns in the U.S.?
What is the current situation with Brexit?



Something to read...

Politics sections in newspapers
Articles online concerning the UK government, Brexit and the U.S 2020 election campaigns.



Something to listen to...

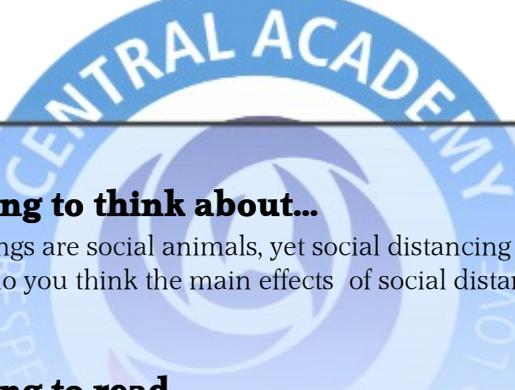
'Westminster Hour' BBC radio 4 podcast <https://www.bbc.co.uk/programmes/p02nrs6c/episodes/downloads>
'Americast' podcast to keep up to date with the 2020 presidential election <https://www.bbc.co.uk/programmes/p07h19zz/episodes/downloads>



Advanced reading...

UK Government & Politics (Philip Allan Updates) by Philip Lynch & Paul Fairclough
Understanding AS Level Government and Politics by Christopher Wilson

Politics



Psychology



Something to think about...

Human beings are social animals, yet social distancing has stopped this. What do you think the main effects of social distancing will be on people?



Something to read...

The Origins of Psychology: <https://www.verywellmind.com/a-brief-history-of-psychology-through-the-years-2795245>



Something to listen to...

All in the Mind, Radio 4 with Claudia Hammond. <https://www.bbc.co.uk/programmes/b006qxx9>

Example: How to feel less lonely: <https://www.bbc.co.uk/sounds/play/p06mp7zv>



Advanced reading...

Amazon Psychology: A Complete Introduction: Teach Yourself Kindle Edition https://www.amazon.co.uk/Psychology-Complete-Introduction-Teach-Yourself-ebook/dp/B012DFWI4A/ref=sr_1_5?dchild=1&keywords=psychology&qid=1587627437&sr=8-5



Something to think about...

How do sports react and recover from the Coronavirus Pandemic? Do they need to change any rules/regulations/funding moving forwards? Also how has technology improved performance in sport and sport for the spectator?



Something to read...

The British Journal of Sports Medicine has lots of interesting and relevant articles that link to many areas such as physiology, coaching or injury prevention along with many others. <https://bjsm.bmj.com/>



Something to listen to...

Try some of the Human Kinetics free webinars on a range of topics from sports science through to health promotion. <https://us.humankinetics.com/pages/human-kinetics-webinars>

The everlearner.com offers a free trial where you can experience some trial lessons and questions relating to AQA Level PE and Edexcel BTEC Sport Unit 1 <https://www.theeverlearner.com/>



Advanced reading...

Exercise Physiology And Functional Anatomy (1995),(Clegg. C), Feltham Press

Sport/PE