Djanogly
City Academy Sixth Form

Step up to Sixth Form Activities

A Level Geography

KEY INFORMATION

Exam Board: AQA
Course Textbook: Oxford A Level AQA Physical Geography Textbook, Oxford A Level AQA Human Geography Textbook

ACTIVITIES

Physical Geography subject preparation task

Topic – Hazards

Task – Complete 1 side of A4 paper answering the following question. However, rather than just write a whole page research what an infographic poster is and try to make one of those.

What makes Japan a multi-hazard area?

Top tip – Start by googling the question and see what comes up.

Human Geography subject preparation task

Topic – Changing Places

Task - Complete 1 side of A4 paper answering the following question:

How has Nottingham changed culturally between 1945 and 2022?

Cornell note taking task

*Go to the following link: **https://www.alevelgeography.com/japan-2011-earthquake-case-study/***

Produce a page of Cornell notes on the 2011 Japanese earthquake.

Useful Online Links	https://www.alevelgeography.com/ https://senecalearning.com/en-GB/blog/free-aqa-a-level-geography-revision/ https://geography-revision.co.uk/aqa-a-level/
TV and Film	Just watch the news as much as possible, Tik Tok and Instagram. Just try to see the geography in everything you do. Immerse in geography. • The Impossible (2012) – about the 2002 Boxing Day Tsunami • Slumdog Millionaire (2008) – about life in the slums of Mumbai • Planet Earth 1&2 • Blue Planet 1&2 • BBC2 Coast • Our Planet (Netflix) • The Boy who Harnessed the Wind (Netflix)
Podcasts	https://blog.feedspot.com/geography_podcasts/ The link above will take you to a list of the top 10 geography related podcasts.
Wider Reading	Go to this link and get familiar with the AQA A Level webpage. It contains all the details of the course so you know what it is all about by the time to arrive in September. https://www.aqa.org.uk/subjects/geography/as-and-a-level/geography-7037 • Geographical Review magazine • The Economist • Factfulness by Hans Rosling • The Almighty Dollar by Dharshini David • Prisoners of Geography by Tim Marshall • An Iceberg as big as Manhattan by David Shukman
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Product Design

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA Design and Technology

ACTIVITIES

Design and make a product, which fits within the Etsy brand website. You will need to complete a variety of tasks to design and develop a product, which is viable for an Etsy listing.

Context

To design and make a modern plant stand or hanger which can be listed as a ' flat pack' product

Limitations

This project can be presented on x1 A3 piece of work. A double sided submission is acceptable on A3 card.

Materials available

Laser ply, Acrylic

Acceptable processes

Hand tools, Laser Cutter

Content

- Initial presentation content + display page
- Research and existing product inspiration
- Secondary product analysis
- Initial Designs
- Design Developments
- 2D + 3D Cad design or cut files
- Final product testing + product images

Useful Online Links	www.Esty.com Ecommerce company focused on handmade or vintage items and craft supplies http://www.aqa.org.uk/subjects/design-and-technology/as-and-alevel/design-andtechnology-product-design7552
TV and Film	What should I watch for creativity? 7 Netflix Docs That Fuel Creativity. • The Creative Brain (2019) ... • Abstract: The Art of Design (2017) ... • The Chef's Table (2015 -) ... • Struggle: The Life and Lost Art of Szukalski (2018) ... • Minimalism: A Documentary About the Important Things (2016) ... • My Beautiful Broken Brain (2016) ... • The 100 Year Show (2015)
Podcasts	https://www.data.org.uk/for-education/media-video-and-podcasts/podcasts/
Wider Reading	**Further Reading:** Design Museum: Contemporary Design Catherine McDermott Process: 50 Product Designs from Concept to Manufacture Paperback – 25 Jennifer Hudson The Eco-Design Handbook Alastair Faud –Luke Designs of the Times Lakshmi Bhaskaran Arts & Crafts Companion Pamela Todd Bauhaus Benedict Taschen **Design Styles and Movements:** *Scholars should be aware of, and be able to discuss, key design styles and movements and their principles of design.* Please complete a study on one of the following design movements:- • arts and craft movement • Art Deco • Modernism, eg Bauhaus • Post modernism, eg Memphis. You will need to focus on the origin of the design style/movement, the main contributors and the key features of design within that style. It would also be good to consider the socio economic influences of those movements, such as trends and fashion, or major influences such as the war. **Major developments in technology** *Scholars should be aware of, and be able to discuss, how major developments in technology are shaping product design and manufacture.* Research and investigate how the following have developed over time and how new technology might influence product design in the future;- • Micro electronics • New materials • New methods of manufacture • Advancements in CAD/CAM
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A Level Biology

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA Biology A Level: September 2015 (AQA A Level Sciences 2014) by Glenn Toole (Author), Susan Toole (Author)

ACTIVITIES

The cell - The cell is the building block of life. Each of us starts from a single cell, a zygote, and grows into a complex organism made of trillions of cells. In this issue, we explore what we know – and what we don't yet know – about the cells that are the basis of us all and how they reproduce, grow, move, communicate and die.
https://www.savemyexams.co.uk/as/biology/aqa/16/revision-notes/2-cell-structure/2-1-cell-structure/2-1-2-structure-of-eukaryotic-cells/

Biological molecules - There is much variety of life within and between organisms but the biochemical basis of life is similar for all living things.
https://www.savemyexams.co.uk/a-level/biology/aqa/17/revision-notes/1-biological-molecules/1-1-biological-molecules-carbohydrates/1-1-1-biological-molecules-key-terms/

The immune system - The immune system is what keeps us healthy in spite of the many organisms and substances that can do us harm. In this issue,
explore how our bodies are designed to prevent potentially harmful objects from getting inside, and what happens when bacteria, viruses, fungi or other foreign organisms or substances breach these barriers.
https://www.savemyexams.co.uk/a-level/biology/aqa/17/revision-notes/2-cell-structure/2-5-cell-recognition-the-immune-system/2-5-1-cell-recognition/

Cornell note taking task

Choose one of the topics above to create Cornell notes.

Useful Online Links	Save my Exams A level Biology AQA, Youtube Channels (Miss Estruch, Bozeman Science, Primrose Kitten, free science lessons) **Why Bees are Disappearing** Available at : http://www.ted.com/talks/marla_spivak_why_bees_are_disappearing?language=en Honeybees have thrived for 50 million years, each colony 40 to 50,000 individuals coordinated in amazing harmony. So why, seven years ago, did colonies start dying en-masse? **Growing New Organs** Available at : http://www.ted.com/talks/anthony_atala_growing_organs_engineering_tissue?language=en Anthony Atalla's state-of-the-art lab grows human organs — from muscles to blood vessels to bladders, and more.
TV and Film	GATTACA (Genes & Ethics) , Spiderman 1 (genetic mutations) – Marvel & DC films in general (lots of themes regarding science, ethics and mutations of genes) **Gorillas in the Mist (1988)** An absolute classic that retells the true story of the life and work of Dian Fossey and her work studying and protecting mountain gorillas from poachers and habitat loss. A tear jerker. **Inherit The Wind (1960)** Great if you can find it. Based on a real life trial of a teacher accused of the crime of teaching Darwinian evolution in school in America. Does the debate rumble on today? **Lorenzo's Oil (1992)** Based on a true story. A young child suffers from an autoimmune disease. The parents research and challenge doctors to develop a new cure for his disease. There are some great TV series and box sets available too, you might want to check out: Blue Planet, Planet Earth, The Ascent of Man, Catastrophe, Frozen Planet, Life Story, The Hunt and Monsoon.
Podcasts	Seneca Learning – Spotify AQA Biology A level Ted talks – Biology Topics on spotify/Youtube
Wider Reading	The Martian, The immortal Life of Henrietta Lacks, How to grow a human, The Selfish Gene, Y: The decent of Man, DNA: The secret of life
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Chemistry

KEY INFORMATION

Exam Board: AQA
Course Textbook: CGP – A-Level Year 1 and AS Chemistry AQA,
CGP – A-Level Year 2 Chemistry AQA
Or CGP – A-Level Year 1&2 Chemistry AQA

ACTIVITIES

Use your online researching abilities to see if you can find out as much about the topic as you can. Remember if you are a prospective A level chemist, you should aim to push your knowledge.

Task 1: The chemistry of fireworks What are the component parts of fireworks?
What chemical compounds cause fireworks to explode?
What chemical compounds are responsible for the colour of fireworks?

Task 2: Why is copper sulfate blue?
Copper compounds like many of the transition metal compounds have got vivid and distinctive colours – but why?

Task 3: Aspirin
What was the history of the discovery of aspirin, how do we manufacture aspirin in a modern chemical process?

Task 4: The hole in the ozone layer
Why did we get a hole in the ozone layer?
What chemicals were responsible for it?
Why were we producing so many of these chemicals?
What is the chemistry behind the ozone destruction?

Task 5: ITO and the future of touch screen devices
ITO – indium tin oxide is the main component of touch screen in phones and tablets. The element indium is a rare element and we are rapidly running out of it.
Chemists are desperately trying to find a more readily available replacement for it.
What advances have chemists made in finding a replacement for it?

Useful Online Links	Video links - http://www.a-levelchemistry.co.uk/aqa-a-level-chemistry.html A Level chemistry builds upon what you have learnt at GCSE. It is really important that you are confident with all of the content from GCSE - https://www.bbc.co.uk/bitesize/examspecs/z8xtmnb Our AS and A-level Chemistry webpages are aimed at teachers, but you may find them useful too. Information includes: • The specification – this explains exactly what you need to learn for your exams. • Lists of command words and subject specific vocabulary – so you understand the words to use in exams. • Practical handbooks explain the practical work you need to know. • Maths skills support. • Web resources page with many links to other resources to support study. The RSC do everything from naming new elements and lobbying MPs, to improving funding for research sciences in the UK. You'll find lots of handy resources on their website.
TV and Film	Rough science – the Open University – 34 episodes available. Real scientists are 'stranded' on an island and are given scientific problems to solve using only what they can find on the island. Great fun if you like to see how science is used in solving problems. There are six series in total http://bit.ly/pixlchemvid1a http://www.dailymotion.com/playlist/x2igjq_Rough-Science_rough-science-full-series/1#video=xxw6pr A thread of quicksilver – The Open University A brilliant history of the most mysterious of elements – mercury. This program shows you how a single substance led to empires and war, as well as showing you come of the cooler properties of mercury. http://bit.ly/pixlchemvid2 https://www.youtube.com/watch?v=t46lvTxHHTA 10 weird and wonderful chemical reactions, can you work out the chemistry of …. any… of them? http://bit.ly/pixlchemvid3 https://www.youtube.com/watch?v=0Bt6RPP2ANI
Podcasts	All Chemistry in its element: The Elements articles - https://www.chemistryworld.com/chemistry-in-its-element-the-elements/218.subject Chemistry for your life - https://chemforyourlife.transistor.fm/
Wider Reading	Periodic Tales: The Curious Lives of the Elements (Paperback) Hugh Aldersey-Williams - http://bit.ly/pixlchembook1 The Science of Everyday Life: Why Teapots Dribble, Toast Burns and Light Bulbs Shine (Hardback) Marty Jopson - http://bit.ly/pixlchembook2 Bad Science (Paperback) Ben Goldacre - http://bit.ly/pixlchembook3 Calculations in AS/A Level Chemistry (Paperback) Jim Clark - http://bit.ly/pixlchembook4
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A Level Physics

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA Physics A Level, Oxford University Press)

ACTIVITIES

Newton's Laws of Motion are fundamental laws for the motion of all the object we can see around us. Use this website and the suggested further reading links on the webpage to make yourself familiar with the topic.

http://www.livescience.com/46558-laws-of-motion.html

Newton's Laws of Motion Tutorial (physicsclassroom.com)

Task:
Find one interesting fact/story related to each law.

Cornell note taking task

CERN encompasses the Large Hadron Collider (LHC) and is the largest collaborative science experiment ever undertaken. Find out about it here and make a page of suitable notes on the Large Hadron Accelerator and what it's currently being used to find out.

http://home.cern/

Useful Online Links	Quantum Theory Timeline (particleadventure.org) The Higgs boson | CERN (home.cern) https://www.youtube.com/playlist?list=PLGvD8d3gDHUXLkGHQShzTVsr0TZB7It2y
TV and Film	https://www.wondersofphysics.com/2020/04/best-physics-movies.html https://www.imdb.com/title/tt4636870/
Podcasts	https://senecalearning.com/en-GB/blog/gcse-a-level-podcasts-by-seneca/ https://perimeterinstitute.ca/conversations-perimeter?__hstc=88979268.8d2e3db97535bd1e08b84014aa975939.1655722892423.1655722892423.1655722892423.1&__hssc=88979268.1.1655722892424&__hsfp=2271039328
Wider Reading	• **A Brief History of Time** - *Stephen Hawking* Not as good as its mythological status suggests but definitely worth a read to give a broad overview of cosmology. A little out of date now, and a little mind blowing in places but it certainly opens your eyes to the principles of cosmology. There's nothing really in the way of scary mathematics. There's only 1 equation in the entire book, as Hawking likes to point out - The famous $E = mc^2$. If you don't fancy this you may like to try *a Briefer History of Time* which is more up to date. It's also apparently much easier to read. • **Universe in a Nutshell** - *Stephen Hawking* The sequel to the above. Written in 2001 it brings the reader up to date, focusing mainly on the theory of branes and M-theory, which leads on from string theory. A lot prettier pictures in this one, but again quite involved conceptually, and somewhat biased towards set theories (namely string theory and the concept of p-branes). • **The Elegant Universe** - *Brian Greene* Another of these mythical "must read" books, which has become extremely popular of late. For all its popularity, make no mistake that it is not an easy read. It's pitched at quite a high level but does give just about everything on string theory you could possibly want to know, without the mathematical complexities inherent in string theory. As you'd expect it's very biased towards string theory. • **The First Three Minutes** - *Steven Weinberg* This is a book that is always highly recommended. It's very well explained to the lay person (but with glossaries and mathematical derivations at the end for those who want it) and concentrates more on a step by step occurrence of what happened in the first 3 minutes after the big bang, in a level of detail not covered elsewhere.
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level English Literature

KEY INFORMATION

Exam Board: AQA
Course Textbook:
A/AS level English literature A for AQA: Student book
By:Carey, Russell, Fairhall, Anne, Rank, Tom, Giovanelli, Marcello

ACTIVITIES

Reading set texts for "Love Through The Ages"

Wider reading for "Love Through The Ages" – extract booklet and suggested wider reading.

Cornell note taking task

Choose one of the extracts and create a page of Cornell notes in which you focus on how the theme of love has been presented.
Consider:

- *The way in which love has been presented*
- *Any issues or barriers shown*
- *Any way in which the treatment of love is different or unusual to what you might expect*
- *The methods the writer uses to present love or ideas connected to love.*
- *Any contextual links you can make – look up when they were written and see if you can find links in the texts themselves*

All of the extracts are part of longer texts and all are available on line. Feel free to read the whole text and share your thoughts on it when you return in September.

Useful Online Links	• The BBC's Culture in Quarantine allows you to watch a number of Shakespeare plays for free: https://www.bbc.co.uk/iplayer/episodes/p089zds8/culture-in-quarantine-shakespeare • The National Theatre have a number of online performances including Frankenstein and Treasure Island: https://www.youtube.com/channel/UCUDq1XzCY0NIOYVJvEMQjqw • A helpful guide to understanding Othello, including a line-by-line translation: https://www.sparknotes.com/shakespeare/othello/ • Online quizzes and revision: https://senecalearning.com/en-GB/blog/a-level-english-literature-revision/ • Look at what 10 classic novels tell us about society: https://www.bbc.co.uk/programmes/articles/1vKxffY08WT6TTv36JcjV6T/living-together-what-10-classic-novels-tell-us-about-society A collection of online poetry and readings: https://poetryarchive.org/poetry-archive-now/
TV and Film	• Othello (1995) • Shakespeare in Love (1998) (a loose account of Shakespeare's life and the context of his plays) • All Is True (2018) (The later life of William Shakespeare) • Death of a Salesman (1985) • The Great Gatsby (2013) (genre of tragedy) • Bright Star (2009) (based on the life of John Keats) • Brighton Rock (1948 and 2010) • Atonement (2007) • Wilde (based on the life of Oscar Wilde) • The Happy Prince (based on the life of Oscar Wilde) • The Handmaids Tale (2016-) (dystopian fiction) 1984 (1984) (dystopian fiction)
Podcasts	• **Approaching Shakespeare** – University of Oxford analysis of Othello's race: http://podcasts.ox.ac.uk/othello • **No Holds Bard** - insights into Shakespeare's plays: https://www.noholdsbard.com/episodes/2017/6/14/nhb-067-so-youre-going-to-see-othello • **Lend Me Your Ears** - detailed analysis of Shakespeare's plays: https://slate.com/culture/2018/09/lend-me-your-ears-em-othello-em.html • **The Shakespeare Sessions** – a modern retelling of Othello: https://www.bbc.co.uk/sounds/play/p08b2cgm • **In Our Time** – a discussion of the Romantic poets: https://www.bbc.co.uk/programmes/p00546ws • **In Our Time** – a discussion of the life of William Shakespeare: https://www.bbc.co.uk/programmes/p00545dp • **Archive on 4** – The Life of Arthur Miller: https://www.bbc.co.uk/sounds/play/b06hyxc6 • **NPR** – An insight into Death of a Salesman's Willy Lowman: https://www.npr.org/books/titles/138258596/death-of-a-salesman?t=1589469184840 • **Great Lives** – The Life of Graham Greene: https://www.bbc.co.uk/sounds/play/b012wjd1 **Seneca** – podcasts on the texts, characters and themes: https://podcasts.google.com/feed/aHR0cHM6Ly9hbmNob3IuZm0vcy9hM2E0OGRjL3BvZGNhc3Qvcn Nz/episode/Njg4MTRlMzItNzU5MC04ODMxLWUzMzEtYTlkYzA1NDZjYmZk?ved=0CDkQzsICahcKEwiQ 1tG0zLPpAhUAAAAAHQAAAAQAQ
Wider Reading	• *Shakespearean Tragedy* by A.C. Bradbury • *Tragedy: A Very Short Introduction* by Adrian Poole • *An Introduction to Tragedy*: https://literariness.org/2018/07/23/tragedy-an-introduction/ • *The Great Gatsby* by F. Scott Fitzgerald • *A Streetcar Named Desire* by Tennessee Williams • *Tess of the d'Urbervilles* by Thomas Hardy • *The Remains of the Day* by Kazuo Ishiguro • *Hamlet* by William Shakespeare • *The Murder of Roger Ackroyd* by Agatha Christie • *When Will There Be Good News?* By Kate Atkinson • *Oliver Twist* by Charles Dickens *The Rime of the Ancient Mariner* by Samuel Taylor Coleridge
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level English Language

KEY INFORMATION

Exam Board: AQA
Course Textbook: A/AS Level English Language for AQA Student Book (A Level (AS) English Language AQA) by Giovanelli, Marcello, Ives, Gary, Keen, John, Rana, Raj, Rudman, Rachel (June 4, 2015)

ACTIVITIES

Task 1: Choose a social media or messaging app that you frequently use and look at the last ten messages you posted/sent. How many times have you:
a) used non-standard English or slang.
b) used an emoji?
- Make a note of the totals for each.
- Now, have a look at ten messages you've been sent from someone else – perhaps an older family member or someone you have a different relationship to than your first choice. Do the same for them and make a note of the totals.
- Do you notice any differences in the totals you have for the two sets of data?
- Are there any surprises in these totals? Did you see anything that you didn't expect to see?

Task 2: Complete the text analysis tasks in the attached booklet.

Cornell note taking task

Read the article 'The Rise and Fall of Jafaican' and watch the TEDx video at the bottom of the page. Complete one page of notes using the Cornell method. The York English Language Toolkit - Jafaican

Useful Online Links	The Open University provide a series of short useful YouTube videos on a range of relevant topics. What is Language? https://www.youtube.com/watch?v=LwG9SNeCof8 The History of English in 10 Minutes: https://www.youtube.com/watch?v=H3r9bOkYW9s A Brief History of Emoji: https://www.youtube.com/watch?v=_tTXLuZHYf4 Narrative in Journalism and Politics: https://www.youtube.com/watch?v=iCP_ifjRZgA Filter Bubbles and Fake News: https://www.youtube.com/watch?v=eaolE1blpWk Why Do We Swear? https://www.youtube.com/watch?v=TsFm-pN_XJ0
TV and Film	BBC Word of Mouth – a radio show featuring topical language issues. https://www.bbc.co.uk/programmes/b006qtnz/episodes/player
Podcasts	Lexis – podcasts by A level English language teachers. https://anchor.fm/lexispodcast Accentricity – podcasts featuring accents and attitudes towards them. https://www.accentricity-podcast.com/ Talk the Talk – weekly linguistics podcast Talk the Talk – A weekly show about linguistics, the science of language, on RTRFM 92.1 (talkthetalkpodcast.com)
Wider Reading	- The Cambridge Encyclopaedia of the English Language by David Crystal – great resource to dip in and out of for all aspects of the Language course. - Adrian Beard - How Texts Work - Routledge series. - Deborah Cameron The myth of Mars and Venus – interesting accessible text on language and gender. - Ron Carter, Angela Goddard, Danuta Reah, Keith Sanger & Maggie Bowring - Working with Texts 2nd Edition. - Amanda Coultas Language and Social Contexts Routledge series - Very helpful introductions to speech, formality issues and representation. - David Crystal How Language works – comprehensive overview including child language acquisition. - David Crystal Rediscover Grammar Student-friendly – help to review grammar. - The Myth of Mars and Venus: Do Men and Women Really Speak Different Languages? By Deborah Cameron. Clear, helpful and often entertaining overview of gender studies. - Amanda Coultas, Language and Social Contexts, Routledge series Student-friendly. Helpful focus on identity, gender and context. - Deborah Tannen, You Just Don't Understand: women and men in conversation. Linda Thomas, Shan Wareing, Ishtla Singh, Jean Stilwell Peccei, Joanna Thornborrow & Jason Jones - Language, Society and Power: An Introduction - Comprehensive. Chapters on politics, media, gender, ethnicity and age.
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level History

KEY INFORMATION

Exam Board: Pearson/Edexcel
Course Textbook: "Edexcel A Level History, Paper 3: Civil Rights and Race Relations in the USA, 1850-2009"
"Edexcel A Level History, Paper 1 & 2: Revolutions in Early Modern and Modern Europe"

ACTIVITIES

In order to be successful within A Level History it is very important that you are able to, and driven to, throw yourself into understanding and being able to question the context of the periods under study. Within your previous History learning you will have begun to immerse yourself within certain time periods of thematic studies, but now it is imperative that you can delve into the true breadth and depth of contextual understanding that is required for each of your topic areas. Independent study is also linked to this and of a great deal of importance as this will ensure that you can answer enquiry questions about the topic area and can discover your own evidence to use within your studies. Below are some activities to prepare you for your A Level History studies:

1. **Conduct a research task whereby you discover some introductory reading for your 3 different A Level History topics:**
   - Britain, 1625-1701: conflict, revolution and settlement

   - Russia in revolution, 1894-1924

   - Civil Rights and race relations in the USA, 1850-2009

2. **Read the opening chapter for the following recommended books for the A Level History course:**
   - *Monarchy Transformed: Britain 1603-1714* by M. Kishlansky
   - *Introduction to Stuart Britain 1603-1714* by A. Anderson

   - *From Stagnation to Reform: The USSR 1964-1991* by J. Laver
   - *Stalin and Khrushchev: The USSR 1924-1964* by M. Lynch

   - *The Help* by Kathryn Stockett
   - *My Bondage and My Freedom* by Frederick Douglass

Cornell note taking task

Undertake a Cornell Note-Taking Task for the above opening chapters.

Useful Online Links	An Introduction to Stuart England | English Heritage (english-heritage.org.uk) Stuart Britain Timeline (projectbritain.com) Russian Revolution - Causes, Timeline & Definition - HISTORY Russian Revolution | Definition, Causes, Summary, History, & Facts | Britannica www.teachingamericanhistory.org www.nationalarchives.gov.uk/education/topics/civil-rights.htm www.nationalarchives.gov.uk/education/heroesvillains/ www.pbs.org/black-culture/explore/civil-rights-movement/#.U7aU8k1fdD8
TV and Film	**Stuart Britain -** *Cromwell* *Winstanley* *By the Sword Divided* *Restoration* **Russian Revolution -** *October: Ten Days that Shook the World* *Lenin in October* *Sunstroke* *Reds* **American Civil Rights -** *Gone with the Wind* *Island in the Sun* *To Kill a Mockingbird* *Guess who's Coming to Dinner* *In the Heat of the Night* *Roots- TV series* *Beloved* *Mississippi Burning* *Malcolm X* *The Wire- TV series* *The Help* *Birth of a Nation*
Podcasts	BBC Sounds: History Podcasts - BBC Sounds - History Podcasts Sky History - Homepage | Sky HISTORY UK TV Channel
Wider Reading	Read fictional literature on life in the USSR: ○ George Orwell: Animal Farm (1946) ○ Orlando Figes: A cultural history of Russia (2003) ○ Orlando Figes: The Whispers (2008)
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Art

KEY INFORMATION

Exam Board: AQA
Course Textbook: NA

ACTIVITIES

Learning Objectives: To know the 4 A Level Assessment Objectives. To be able to produce 4 A3 pages of work, 1 related to each Assessment Objective

Your A Level Coursework is a 'Personal Investigation'. AQA want you to use Art as a way to investigate and explore a topic which is personal to you. On the transition Day and over the summer I want you to think about what that topic might be and begin, through the form of a mini project, to produce work based on the topic you have chosen.

You may use a sketchbook or you can work on loose leaf A3 sheets, the choice is yours.

Useful Online Links	https://www.aqa.org.uk/subjects/art-and-design/as-and-a-level/art-and-design-7201/introduction https://www.tate.org.uk/art https://www.tate.org.uk/art/art-terms https://artuk.org/ https://artsandculture.google.com/
TV and Film	https://artoflondon.co.uk/itineraries/13-artist-tv-shows-movies-and-documentaries-to-watch-on-youtube-netflix-amazon-prime-and-more
Podcasts	https://www.artcuriouspodcast.com/ https://www.janinaramirez.co.uk/podcasts https://talkartpodcast.komi.io/
Wider Reading	How to write about Contemporary Art' - Gilda Williams 'Why your five year old could not have done that' – Susie Hodge 'Isms . . . Understanding Modern Art' – Sam Phillips 'Ways of Seeing' – John Berger 'Thinking About Art: A Thematic Guide to Art History' – Penny Huntsman 'Interview with Francis Bacon' – David Sylveser 'Drawing on the Rightside of the brain' – Betty Edwards 'The Art Spirit' – Robert Henri 'The Art Book' - Phaidon
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Psychology

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA Psychology for A Level Year 1 & AS Student Book: 2nd Edition by Cara Flanagan, Matt Jarvis and Rob Liddle

ACTIVITIES

Using TV, radio, newspapers, internet, magazines etc look for research studies that have been recently published on one of the following subjects:

- Child development
- Causes of criminality
- Intelligence
- Gender development
- Mental health
- Eating behaviour
- Addiction

Write a short review describing what has been found, how the research was conducted, what problems you can spot in the method used for the research and then consider why you might agree or disagree with the findings.

Useful Online Links	Visit the British Psychological Society's website (http://beta.bps.org.uk/public/becomepsychologist) and research careers within the field of psychology Read about the 25 Most Influential Psychological Experiments in History https://www.onlinepsychologydegree.info/influential-psychological-experiments/ Use the 'Simply Psychology' website (https://www.simplypsychology.org/) to research articles on the different approaches in psychology, the research methods used by psychologists and the 'founding fathers' of psychology Look on the psychology section of the TED talks website (https://www.ted.com/topics/psychology) and choose any of the interesting and informative 20 minute presentations to watch Using the BBC website (http://www.bbc.co.uk/science/humanbody/mind/index_surveys.shtml) complete a series of online psychology tests and surveys
TV and Film	• Inside Out (personality and memory) • One Flew Over the Cuckoo's Nest (personality/mood disorders, forensic psychology, treatments) • The Experiment (Zimbardo's study – conformity to social roles) • Shawshank Redemption (motivation) • 50 First Dates (memory loss and anterograde amnesia) • Rain Man (neuropsychology/autism, marital/family dynamics) • A Beautiful Mind (schizophrenia) • Shutter Island (dissociative identity disorder) • As Good As It Gets (OCD) • Vanilla Sky (dreaming and the unconscious mind) • Black Swan (psychotic disorder) • Memento (neuropsychology, memory loss/amnesia) • The Hours (major depressive disorder) • Forrest Gump (intellectual developmental disability) • Good Will Hunting (social and developmental psychology, treatment, giftedness) • The Blind Side (social psychology, including social influence and family relations) • The Notebook (clinical and social psychology, cultural differences, Alzheimer's disease) • Mindhunter (Netflix) • Criminal Minds (Netflix) • Dexter (Netflix) • In Treatment (Netflix)
Podcasts	• British Psychological Society Digest Podcasts https://digest.bps.org.uk/podcast/ • All in the Mind https://www.bbc.co.uk/programmes/b006qxx9 • The Psychology of Evil https://www.youtube.com/watch?v=OsFEV35tWsg • The Psychology Podcast https://scottbarrykaufman.com/podcast/
Wider Reading	• Psychology Review magazine • The Lucifer Effect by Phillip Zimbardo • The Shock of the Fall by Nathan Filer • Sapiens: A Brief History of Humankind by Yuval Noah Harari • One Flew Over The Cuckoo's Nest by Ken Kesey • The Skeleton Cupboard by Dr Tanya Byron • The Jigsaw Man by Paul Britton • Elephants on Acid by Alex Boese
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Sociology

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA A Level Sociology Book One & AQA A Level Sociology Book TWO By Robert Webb published by Napier press.

ACTIVITIES

Using TV, radio, newspapers, internet, magazines etc look for research studies that have been recently published on one of the following subjects:

- Social class
- Inequality in education
- Childhood
- Government policy on crime
- Crime rates
- Gender and education
- Gender and employment
- Changing relationships
- Gender stereotypes
- Religion and society

Write a short review describing what has been found, how the research was conducted, what problems you can spot in the method used for the research and then consider why you might agree or disagree with the findings.

Useful Online Links	Visit the British Sociological Association website https://www.britsoc.co.uk/ and using the 'what is sociology tab' research what sociology is all about, how research is carried out and the study and career opportunities that Sociology leads to. Read all about influential sociologists who have shaped how we understand society and our role within it by reading the sociologist profiles on https://www.thoughtco.com/famous-sociologists-3026648 Get a head start on sociological theory by reading the overviews of sociological perspectives here: https://www.thoughtco.com/theoretical-perspectives-3026716 Listen to the excellent TED talk from sociologist Alice Goffman on how society prepares some for university and others for prison, and what her research in tough inner city Philadelphia showed. https://www.ted.com/speakers/alice_goffman Read the article: https://ideas.ted.com/the-unintended-consequences-of-being-tough-on-crime/ and write down your views, should government policy on crime be punishment focused of rehabilitation and community improvement focused? Justify your decisions! Explore TED talks on social inequality, what is it, why does it happen and what are its consequences? https://blog.ted.com/playlist-the-roots-and-effects-of-income-equality/ The websites below will give you an insight into specific areas of study and the skills you'll need to develop to ace your Sociology A level https://www.theguardian.com/education www.emmanuelsociology.wordpress.com https://www.youtube.com/user/TheTEACHERSOCIOLOGY
TV and Film	Film: Made in Dagenham (A story of how women fought for equal pay for equal work in the UK) Film: I, Daniel Blake (Poverty, social class and inequality) Film: City of God (Crime, ethnicity, social class and inequality) Film: The Wife (Gender, power, identity and feminism) Film: The Green Mile (Crime, ethnicity and social stereotyping) On Netflix: Girls Incarcerated (Gender and crime) Dirty Money (capitalism, Marxism, social policy, globalisation and crime) Flint Town (state crime, green crime, punishment, globalisation and crime) BBC and Channel 4: Panorama (BBC) and Dispatches (Ch4) often focus on issues relating to Sociology
Podcasts	• 30 minute podcasts about all things sociology related www.anchor.fm/allsociology • Podcasts from leading social scientists on issues facing the world www.socialsciencespace.com/author/socialsci encebites • Podcast from a leading sociology academic journal https://soundcloud.com/thesociologicalreview • Interviews with some of the key scholars whose research you will study: https://www.listennotes.com/podcasts/the-sociology-show-matthew-wilkin--EujCyzDmkA/
Wider Reading	Miseducation: Inequality, Education and the Working Classes by Diane Reay Natives by Akala Gang Leader for a Day by Sudhir Ventkatesh The New Jim Crow by Micheal Alexander Eve was Shamed by Helena Kennedy Chavs by Owen Jones
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Religious Studies

KEY INFORMATION

Exam Board: Pearson
Course Textbook: Tyler and Reid, Edexcel AS Religious Studies (Pearson, 2008)
Tyler and Reid, Edexcel A2 Religious Studies (Pearson, 2009)
Peter Cole and Richard Gray, Edexcel Religious Studies for AS Hodder Education 2009.

ACTIVITIES

Get to know some of the philosophers and scholars you will meet during your A level course. Research the following philosopher referenced in the first four weeks of your course. Try to summarise in a few bullet points. Think about whether you agree with the philosopher's ideas. (this website might be useful to you https://www.bbc.co.uk/programmes/p01f0vzr)

- Paley
- Hume
- Aquinas
- D Hume
- I Kant
- Anselm
- B Russel

Have a go at some thought experiments and make a note of how you get on, and your thoughts on them http://www.philosophyexperiments.com / - pick 3 or 4 of these (http://moralmachine.mit.edu / and https://io9.gizmodo.com/9-philosophical-thought-experiments-that-will-keep-you-1340952809 are also interesting!)

Paley – what is the watch maker argument? (http://darwin-online.org.uk/content/frameset?itemID=A142&pageseq=1&viewtype=text)

Hume – what were Hume's critics of the design argument? (https://www.youtube.com/watch?v=gv_y00WQ9kI)

Cornell note taking task

Use this article to complete 1 side of Cornell notes.

Newspaper article, Robin Dunbar, professor of evolutionary psychology at the University of Oxford entitled 'The big idea: do we still need religion?'
https://www.theguardian.com/books/2022/mar/28/the-big-idea-do-we-still-need-religion

Useful Online Links	The PEPED website has a number of articles, primary texts, activities, podcasts and videos tailored specifically for this course. https://peped.org/ Look on the religion section of the TED talks website (https://www.ted.com/topics/religion) and choose any of the interesting and informative 20 minute presentations to watch. Or watch one of the TED talks on ethics (https://www.ted.com/search?q=ethics) and start to form some of your own views on some of the issues we discuss (driverless cars, artificial intelligence, big business, technology, animal welfare, sexuality)
TV and Film	• The Matrix (consciousness, AI, what makes a human) • Minority Report (free will and determinism) • My Sister's Keeper (medical ethics) • After the Dark (decision making, the value of human life) • Eye in the Sky (ethics of warfare) • Transcendence (consciousness, AI, what makes a human) • The Good Place (Ethics - Netflix) • The Mind Explained (ethics and consciousness - Netflix) • Black Mirror (lots of different episodes looking at the ethics and morality of lots of everyday ideas e.g. robotics, online dating etc - Netflix) • The Story of God with Morgan Freeman (issues in religion and philosophy from a range of views - Netflix) • Messiah (Netflix) • The Big Questions (ethical, religious and philosophical issues debated - BBC iPlayer & YouTube)
Podcasts	• Philosophize This! • History of Philosophy Without Any Gaps • Examining Ethics • BBC Radio 4 – The Global Philosopher – **Interesting topical episode on PANDEMIC ETHICS** • BBC Radio 4 In Our Time: Religion & Philosophy • BBC Radio 4: The Philosophers Arms • BBC Moral Maze – Topics to get you thinking about Ethics • www.thepanpsycast.com/panpsycast2/ - Ideal for A Level preparation on Philosophy of Religion • Ethics Bites Podcast Open Learn from OU • A Romp Through Ethics for Beginners Ethics from Oxford University
Wider Reading	Peter Vardy, The Puzzle of God (William Collins, 1999) Peter Vardy, The Puzzle of Evil (Fount, 1999) Barclay W – Ethics in a Permissive Society The Heart of Islam: Enduring Values for Humanity by Seyyed Hossein Nasr. 2009 Harper Collins. Vision of Islam by William Chittick and Sachiko Murata, 2011 Paragon. I Islam A Short History by Karen Armstrong, 2001 Orion Books
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Computer Science

KEY INFORMATION

Exam Board: OCR
Course Textbook: OCR AS and A Level Computer Science by PM Heathcote and RSU Heathcote. ISBN: 978-1910523056.

ACTIVITIES

Activity 1: In this task you get to investigate any area of emerging computer technology which interests you. Examples could be:

- Artificial intelligence
- Robotics
- Automated self driving cars
- Quantum computing

In no more than one side of A4 summarise the area you have chosen under the following four headings:

- What is it?
- What are the possible Social, Moral, Cultural and Ethical benefits of this technology on society
- What are the possible Social, Moral, Cultural and Ethical risks of this technology on society
- My conclusion on this technology and what it will mean for our world 10 years from now

Activity 2: Start getting to grips with some Visual Basic programming by freely downloading Visual Studio Community 2019 https://visualstudio.microsoft.com/vs/community/ . Then find some online tutorial websites such as https://www.homeandlearn.co.uk/NET/vbNet.html or by finding tutorial videos on www.youtube.co.uk .

Cornell note taking task

Go to the following link: https://news.sky.com/story/cost-of-wannacry-cyber-attack-to-the-nhs-revealed-11523784

Produce a page of Cornell notes on the article

Useful Online Links	Keep up-to-date on the latest developments in Computer Science & IT: ● www.techcrunch.com ● www.wired.com ● www.technologyreview.com ● www.computerworld.com/uk ● https://www.bbc.co.uk/news/technology ● https://www.ted.com/topics/computers Start exploring aspects of the course: ● https://student.craigndave.org/a-level-videos ● https://www.homeandlearn.co.uk/NET/vbNet.html ● https://teachcomputerscience.com/little-man-computer/
TV and Film	● Slave to the Algorithm - https://topdocumentaryfilms.com/slave-algorithm/ ● The True Toxicity of Social Media - ttps://topdocumentaryfilms.com/plugged-in-true-toxicity-social-media-revealed/ ● Inside the Dark Web - https://topdocumentaryfilms.com/inside-dark-web/ ● Amazon: What They Know About Us - https://www.bbc.co.uk/programmes/m000fjdz ● BBC Click - www.bbc.co.uk/click ● Netflix - https://www.rasmussen.edu/degrees/technology/blog/technology-documentaries-on-netflix/ ● CS Documentaries - https://www.imdb.com/list/ls047716315/ ● The Social Network (2010) ● i,Robot (2004) ● Steve Jobs (2015)
Podcasts	●Top Tech/IT podcasts - https://www.bmc.com/blogs/tech-it-podcasts/ ● Computer Technology Podcasts - https://player.fm/podcasts/Computer%2520Technolog
Wider Reading	Surveillance Valley by Yasha Levine ● Hit Refresh: A Memoir by Microsoft's CEO by Satya Nadella ● Hooked: How to Build Habit-Forming Products by Nir Eyal ● The Art of Invisibility by Kevin Mitnick ● The Internet of Things by Samuel Greengard ●I-robot by Isaac Asimov
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Economics

KEY INFORMATION

Exam Board: Edexcel
Course Textbook: Edexcel AS/A Level Economics Student book + Active Book by Alain Anderton (Author), Dave Gray (Author) 6th EDITION (main text book)
Pearson Edexcel A level Economics A Fourth Edition Paperback – 29 Mar. 2019 by Peter Smith (Author)
Edexcel A-Level Economics Knowledge Book - Theme 1, 2,3 and 4.
Edexcel A-Level Economics Study Companion for Theme 1, 2. 3 and 4.

ACTIVITIES

Tutor2u.net research task:-

Head Start in A-Level Economics is the new, free online transition resource to introduce Year 11 scholars to their A-Level Economics course. Work your way through each new topic found on the link below:
https://www.tutor2u.net/economics/collections/head-start-for-alevel-economics-transition-resource-year-11-students?fbclid=IwAR0nAeqjXyd9LYqWsX4ecD7hctfQXretmhwh_SuZLxT3uepdvERlFa94hY4

Enrichment tasks for A level Economics scholars to help you understand the effects of the coronavirus pandemic on different economies:
https://www.tutor2u.net/economics/collections/enrichment-tasks-for-alevel-economics-students

Read articles from the following sources and write a brief summary so you can discuss them on your return to school.:
https://www.bbc.co.uk/news/business/economy
https://www.theguardian.com/business/economics
https://www.economist.com (you can subscribe as there are continual offers)

Join the free Deloitte Monday Briefing Blog which gives a weekly update on economic and finance news from Ian Stewart, Deloitte's Chief Economist in the UK. There are webinars on a Thursday at 13:00 you can listen to run by a panel of experts.

https://blogs.deloitte.co.uk/mondaybriefing/

Useful Online Links	Familiarise yourself with the AQA Economics course content by visiting the following link. Here you can upload the specification and take a look at what you'll be expected to learn in both the first and second year. There are also assessment resources and learning resources. https://www.aqa.org.uk/subjects/economics/as-and-a-level https://www.economicshelp.org https://www.ft.com https://www.bankofengland.co.uk https://www.ons.gov.uk
TV and Film	The Impact of the Coronavirus on the Economy https://www.youtube.com/watch?v=Nz7ELOhFfyQ Inside Lehman Brothers: The Whistleblowers https://www.bbc.co.uk/iplayer/episode/m0009tpx/storyville-inside-lehman-brothers-the-whistleblowers Money Monster (2016) The Company Men (2010) Margin Call (2011) Inside Job (2010) Too Big to Fail (2011) The Big Short (2015)
Podcasts	http://audiovideo.economist.com/ https://live.worldbank.org Econtalk VoxTalks
Wider Reading	Freakonomics – Steven D.Levitt The Wealth of Nations – Adam Smith Thinking Fast and Slow – Daniel Kahneman The Under Cover Economist – Tim Harford 23 Things They Do Not Tell You About Capitalism – Ha-Joon Chang Animal Spirits – George A. Akerlof and Robert J. Shiller The Armchair Economist – economics in everyday life – Steven E. Landsburg The Black Swan – Nassim Nicholas Taleb
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Business

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA A-level Business Year 1 and AS Fourth Edition (Wolinski and Coates) Paperback – 16 Aug. 2019 by John Wolinski (Author), Gwen Coates (Author)
AQA A-level Business Year 2 Fourth Edition (Wolinski and Coates) Paperback – 26 Jun. 2020 by John Wolinski (Author), Gwen Coates (Author)
AQA A-level Business (Surridge and Gillespie) Paperback – 30 Aug. 2019
AQA A-Level Business Knowledge Book (TUTOR 2 U)

ACTIVITIES

External Influences on businesses and The impact of coronavirus on M&S, Amazon and Zoom Video Communications

Context:

The external environment has a key impact on business operations and can ultimately determine the success or failure of a business. The concept of external influences is something that scholars initially study at GCSE and then go on to look at in more depth at A-Level. The external environment can affect businesses in terms of costs and demand for their products or services. The costs are the value paid or to be paid for the acquisition of goods and services by businesses and demand means the amount customers are willing and able to buy at a set price at any given point in time.

This project will start with a review of the typical external influences on business, before moving to focus on the impact of the Coronavirus pandemic which has affected businesses around the world including UK. The nature and consequences of the impact Coronavirus is having varies depending on the type of business activity.

The project is structured in two parts

Section A:
Research and activities to learn about external influences and how changes in them can influence businesses.

Section B:
Research into the impact of coronavirus on M&S, Amazon and Zoom Video Communications – this will include reading and information gathering to produce a mini report.

Useful Online Links	Business theory websites:- Tutor2u.net Excellent website with scholar resources including revision notes and quizzes. Best blog for Business Studies as well as ones for Economics and Politics. Follow Tutor2u Business on Twitter. Taking the Biz Revision resources as well as tutorial videos. https://www.takingthebiz.com BBC learning http://www.bbc.co.uk/learning/subjects/business_studies.shtml
TV and Film	Panorama, Amazon and what they know about us. Amazon, Jeff Bezos and collecting data Inside Bill's Brain: Decoding Bill Gates Tesla Motors – Elon Musk – Documentary https://www.youtube.com/watch?v=rD9PGi8hHvY Warren Buffett & Bill Gates Success http://www.documentarytube.com/business Here Comes Generation Z : http://www.documentarytube.com/business Billionaire Lord Alan Sugar rich lifestyle and story - http://www.documentarytube.com/business Wallmart the high cost and low price - http://www.documentarytube.com/business The Wolf Of Wall Street (Business Finance) Super Size Me (American documentary on McDonalds) The Truman Show (Business Ethics) Inside the Factory- http://www.bbc.co.uk/programmes/b07mddqk The Apprentice - http://www.bbc.co.uk/programmes/b0071b63 Dragon's Den -http://www.bbc.co.uk/dragonsden/entrepreneurs/ Tutor2u business videos - https://www.tutor2u.net/business/videos
Podcasts	In Business (radio 4) and Global Business (BBC World Service) The Bottom Line with Evan Davis (BBC Radio 4) The Times – 12 business Ideas that are changing the world. Times Business Podcast
Wider Reading	Shoe Dog by Phil Knight Elon Musk - Creator of Nike One Click – Jeff Bezos and the rise of Amazon A Theory of Human Motivation – A.H.Maslow Tutor2u Business Blogs https://www.tutor2u.net/business/blog
Further Information	For further information please contact the Sixth Form team (sixthform@djanogly.notts.sch.uk) who will be happy to forward your email to the relevant department.

A Level Maths

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA A Level Mathematics for A Level, Level 1 and AS (Sophie Goldie, Val Hanrahan, Cath Moore, Jean-Paul Muscat and Susan Whitehouse)

ACTIVITIES

- Scholars will receive login details in the coming days to their school email address
- They will then undertake an online course consisting of seven topics, broken down into chapters containing videos and activities, followed by an assessment
- Scholars will receive a certificate of completion, and A-Level team will be able to view and track scholars progress
- Optional extension material is also available throughout the online course
- It is expected that scholars have completed the course prior to September start

If you do not receive login details by Monday 4th July, or are unable to access the online course, please contact the A-Level Maths team by email at: alevelmaths@djanogly.notts.sch.uk or speak to Mr Dickson

Cornell note taking task

- *Watch the following video on equation of tangent to a circle, you may also use other videos or written resources: https://www.youtube.com/watch?v=sZdxMp-HQJM (Search: GCSE Maths Tutor, Equation of a Tangents to Circles)*
- *Take Cornell Notes, breaking the skill down into clear steps, detailing the skills involved*
- *This needs to be a minimum of one-side of A4, however it is recommended that work is presented clearly and with examples, in which case two-sides of A4 would be appropriate*

Useful Online Links	Youtube: • 3 brown 1 blue https://www.3blue1brown.com/ • Numberphile https://www.youtube.com/channel/UCoxcjq-8xIDTYp3uz647V5A • Standupmaths https://www.youtube.com/user/standupmaths • Eddie Woo https://www.youtube.com/channel/UCq0EGvLTyy-LLT1oUSO_0FQ • NRICH https://nrich.maths.org/14571 • Brilliant https://brilliant.org/ Papers: • New Scientist https://www.newscientist.com/ • Alex Bellos's Monday puzzle https://www.theguardian.com/science/series/alex-bellos-monday-puzzle • Plus magazine https://plus.maths.org/content/ • Chalkdust Magazine http://chalkdustmagazine.com/ Other: • Follow the 'WATCH, THINK, DIG DEEPER, DISCUSS' and try The Wizard Standoff riddle. • https://ed.ted.com/lessons/can-you-solve-the-wizard-standoff-riddle-daniel-finkel • Follow the 'WATCH, THINK, DIG DEEPER, DISCUSS' and solve the false positive riddle. https://ed.ted.com/lessons/can-you-solve-the-false-positive-riddle-alex-gendler
TV and Film	Films: • A Beautiful Mind (Cryptography) • π (Mathematician) • Hidden Figures (Black Women Mathematicians in the early U.S space program). • The Theory of Everything (Stephen Hawking) • The Imitation Game (Code Breaking) • Good Will Hunting (Mathematician) • Interstellar (Maths/physicist) • 21 (Statistics) • The Martian (Application of Maths) TV: Countdown on Monday to Friday on Channel 4 at 14:10.
Podcasts	• Relatively Prime https://relprime.com/ • The Infinite Monkey Cage https://www.bbc.co.uk/programmes/b00snr0w/episodes/playerv My favourite Theorem https://kpknudson.com/my-favorite-theorem/ • Women in Mathematics https://soundcloud.com/damien-adams-662584563 • More or Less https://www.bbc.co.uk/programmes/p02nrss1/episodes/downloads • The Numberphile Podcast https://www.numberphile.com/podcast • Maths Appeal https://podcasts.apple.com/gb/podcast/maths-appeal/id1445702010 • Travels in a Mathematical World https://www.travelsinamathematicalworld.co.uk/
Wider Reading	• Head Start To A level Maths Published by CGP • Alex's Adventures in Numberland - Alex Bellos • Humble Pi - Matt Parker • How not to be Wrong, the Hidden Maths of Everyday Life - Jordan Ellenburg • The Life-changing Magic of Numbers - Bobby Seagull • Maths on the Back of an Envelope: Clever ways to (roughly) calculate anything - Rob Eastaway • Why do Buses Come in Threes? – Rob Easterway • Fermat's Last Theorem – Simon Singh • The Simpsons and their Mathematical Secrets – Simon Singh • The Code Book: How to Make it, Break it, Hack it, Crack it - Simon Singh • Seventeen Equations that changed the world - Professor Ian Stewart • The Joy of X: A Guided Tour of Mathematics, from one to Infinity - Steven Strogatz • Indisputable Existence of Santa Claus – Hannah Fry • Things to Make and Do in the Fourth Dimension – Matt Parker • Freakonomics – Steven D. Levitt and Stephen J. Dubner • Super Freakonomics - Steven D. Levitt and Stephen J. Dubner
Further Information	For further information please contact speak to Mr Dickson, or contact the A-Level Maths team on alevelmaths@djanogly.notts.sch.uk

A Level Further Maths

KEY INFORMATION

Exam Board: AQA
Course Textbook: AQA A Level Further Mathematics for A Level, for Core Year 1 and AS (Ben Sparks & Claire Baldwin)

ACTIVITIES

- Scholars will receive login details in the coming days to their school email address
- They will then undertake an online course consisting of seven topics, broken down into chapters containing videos and activities, followed by an assessment
- Scholars will receive a certificate of completion, and A-Level team will be able to view and track scholar progress
- Optional extension material is also available throughout the online course*
- It is expected that scholars have completed the course prior to September start
- (Wednesday 7th September 2022)

If you do not receive login details by Monday 4th July, or are unable to access the online course, please contact the A-Level Maths team by email at: alevelmaths@djanogly.notts.sch.uk or speak to Mr Dickson
*NB If you are undertaking both A Level Maths and Further Maths, it is expected that you explore and complete optional extension material available in the course

Cornell note taking task

- *Watch the following video on equation of tangent to a circle, you may also use other videos or written resources: https://www.youtube.com/watch?v=sZdxMp-HQJM (Search: GCSE Maths Tutor, Equation of a Tangents to Circles)*
- *Take Cornell Notes, breaking the skill down into clear steps, detailing the skills involved*
- *This needs to be a minimum of one-side of A4, however it is recommended that work is presented clearly and with examples, in which case two-sides of A4 would be appropriate*

Useful Online Links	Youtube: • 3 brown 1 blue https://www.3blue1brown.com/ • Numberphile https://www.youtube.com/channel/UCoxcjq-8xIDTYp3uz647V5A • Standupmaths https://www.youtube.com/user/standupmaths • Eddie Woo https://www.youtube.com/channel/UCq0EGvLTyy-LLT1oUSO_0FQ • NRICH https://nrich.maths.org/14571 • Brilliant https://brilliant.org/ Papers: • New Scientist https://www.newscientist.com/ • Alex Bellos's Monday puzzle https://www.theguardian.com/science/series/alex-bellos-monday-puzzle • Plus magazine https://plus.maths.org/content/ • Chalkdust Magazine http://chalkdustmagazine.com/ Other: • Follow the 'WATCH, THINK, DIG DEEPER, DISCUSS' and try The Wizard Standoff riddle. • https://ed.ted.com/lessons/can-you-solve-the-wizard-standoff-riddle-daniel-finkel • Follow the 'WATCH, THINK, DIG DEEPER, DISCUSS' and solve the false positive riddle. https://ed.ted.com/lessons/can-you-solve-the-false-positive-riddle-alex-gendler
TV and Film	Films: • A Beautiful Mind (Cryptography) • π (Mathematician) • Hidden Figures (Black Women Mathematicians in the early U.S space program). • The Theory of Everything (Stephen Hawking) • The Imitation Game (Code Breaking) • Good Will Hunting (Mathematician) • Interstellar (Maths/physicist) • 21 (Statistics) • The Martian (Application of Maths) TV: Countdown on Monday to Friday on Channel 4 at 14:10.
Podcasts	• Relatively Prime https://relprime.com/ • The Infinite Monkey Cage https://www.bbc.co.uk/programmes/b00snr0w/episodes/playerv My favourite Theorem https://kpknudson.com/my-favorite-theorem/ • Women in Mathematics https://soundcloud.com/damien-adams-662584563 • More or Less https://www.bbc.co.uk/programmes/p02nrss1/episodes/downloads • The Numberphile Podcast https://www.numberphile.com/podcast • Maths Appeal https://podcasts.apple.com/gb/podcast/maths-appeal/id1445702010 • Travels in a Mathematical World https://www.travelsinamathematicalworld.co.uk/
Wider Reading	• Head Start To A level Maths Published by CGP • Alex's Adventures in Numberland - Alex Bellos • Humble Pi - Matt Parker • How not to be Wrong, the Hidden Maths of Everyday Life - Jordan Ellenburg • The Life-changing Magic of Numbers - Bobby Seagull • Maths on the Back of an Envelope: Clever ways to (roughly) calculate anything - Rob Eastaway • Why do Buses Come in Threes? – Rob Easterway • Fermat's Last Theorem – Simon Singh • The Simpsons and their Mathematical Secrets – Simon Singh • The Code Book: How to Make it, Break it, Hack it, Crack it - Simon Singh • Seventeen Equations that changed the world - Professor Ian Stewart • The Joy of X: A Guided Tour of Mathematics, from one to Infinity - Steven Strogatz • Indisputable Existence of Santa Claus – Hannah Fry • Things to Make and Do in the Fourth Dimension – Matt Parker • Freakonomics – Steven D. Levitt and Stephen J. Dubner • Super Freakonomics - Steven D. Levitt and Stephen J. Dubner
Further Information	For further information please contact speak to Mr Dickson, or contact the A-Level Maths team on alevelmaths@djanogly.notts.sch.uk