



Extra-Curricular Activities

2020-2021

As we are currently not in a position to offer extra-curricular clubs in school, this booklet contains extra-curricular activity ideas for students to complete outside of lessons in order for students to develop their learning and interests beyond the curriculum.

If you have any questions about the activities in this booklet please contact the relevant Head of Department. *Please check that film and book recommendations are age appropriate.*

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Art



Christmas Stamp Design

Research lino cutting/printing and stamps

Look at how they are just positive and negative, built up using just line, pattern and shape. No Tone. Notice how the lines are thick and bold, rather than thin and delicate.

TASK:

Design your own Christmas Stamp using block shape, line and pattern.

If you have lino cutting tools you can have a go at making it at home.

If you don't, come to the Art department to collect a piece of poly tile. This is a soft polystyrene that you can press into using a pen. See the below YouTube video for instructions.

<https://www.youtube.com/watch?v=ayG7uPyaqUQ>



Business

Business extra-curricular activities and reading

Recommended reading list

- 23 Things They Don't Tell You About Capitalism (Ha-Joon Chang) – challenges conventional thinking
- Age of Discovery: Navigating the Risks and Rewards of Our New Renaissance: (Ian Goldin & Chris Kutarna)
- Alibaba: The House that Jack Ma Built (Duncan Clark) – The rise of the Chinese corporate giant
- Anyone can do it – Duncan Bannatyne
- Art of Strategy (Dixit and Nalebuff) – especially good for Game Theory examples and analysis
- Bottled for Business- Lord Karan Bilimoria
- Capitalism: 50 Ideas You Really Need to Know (Jonathan Portes) – compact and excellent reference material
- Drunkard's Walk (Leonard Mlodinow) – a brilliant history of Maths and lots of relevant applications
- From Acorns (Caspian Woods)
- GDP: A Brief but Affectionate History (Professor Diane Coyle) – very good on the GDP / well-being debate
- Grave New World: (Stephen King) – Former head of Econ at HSBC looks at the fracturing global economy
- How I Made It: 40 Successful Entrepreneurs Reveal All (Rachel Bridge)
- If I Could Tell You Just One Thing...: Most Valuable Advice from Remarkable People: (Richard Reed)
- Inequality (AB Atkinson) – a superb book on one of the defining economic/political issues of the age
- Inner Lives of Markets: How People Shape Them—And They Shape Us (Sharman and Fishman)

- *Management in ten words* by Terry Leahy
- *Misbehaving: The Making of Behavioural Economics* (Richard Thaler) – Superb biography
- *My Big Idea* (Rachel Bridge)
- *Poor Economics: Rethinking Ways to Fight Global Poverty* (Banerjee & Duflo) – development economics
- *Positive Linking – Networks and Nudges* (Paul Ormerod) – good introduction to network economics
- *Rise and Fall of Nations: Ten Rules of Change in the Post-Crisis World* (Richir Sharma)
- *Risk Savvy - How to make good decisions* (Gerd Gigerenzer) – the world of heuristics and risk management
- *Screw it lets do it* – Richard Branson <https://www.youtube.com/watch?v=h9FkeyvdA2M>
- *Ten Great Economists* (Philip Thornton) – biographical background, well worth a read
- *The Box - How the Shipping Container Made the World Smaller and the World Economy Bigger*, (Levinson)
- *The Entrepreneur's Book of Checklists: 1000 Tips to Help You Start and Grow Your Business* (Robert Ashton)
- *The Everything Store: Jeff Bezos and the Age of Amazon* (Brad Stone) – a great page turner
- *The Great Convergence: Information Technology and the New Globalization* (Richard Baldwin)
- *The Great Divide* (Professor Joseph Stiglitz) – one of the classic critiques of globalisation
- *The Great Escape* (Professor Angus Deaton) – a broad sweep of economic history and poverty reduction
- *The New One Minute Manager* – Blanchard & Johnson Audio Book FREE - <https://www.youtube.com/watch?v=ar4lrwXM4ao>
- *The Plundered Planet: How to Reconcile Prosperity with Nature:* (Professor Paul Collier)
- *The Rise And Fall Of Marks & Spencer: and How It Rose Again* – Judi Bevan
- *The Undoing Project:* (Michael Lewis) – Birth of behavioural economics, Kahneman and Tversky
- *The Upstarts: How Uber and Airbnb are changing the world* (Brad Stone) Follow up to his work on Amazon
- *The Virgin Way* – Richard Branson Audio Book FREE - <https://www.youtube.com/watch?v=5wz40rdz7i4>
- *Thinking Fast and Thinking Slow:* (Professor Daniel Kahneman) – the classic Kahneman epic
- *Wake Up and Change Your Life* by Duncan Bannatyne https://www.youtube.com/watch?v=zqLVkMe-JwE4&list=PLosYlqqowJvECmirOpdII_Ynw5Lb4M-Tf&index=10&t=0s
- *What Money Can't Buy: The Moral Limits of Markets* (Professor Michael Sandel) – Pure PPE bliss
- *What You See Is What You Get: My Autobiography* by Alan sugar
- *Who Gets What - And Why: Understand the Choices You Have, Improve the Choices You Make* (Al Roth)
- *Why Information Grows: The Evolution of Order, from Atoms to Economies* (Cesar Hidalgo)
- *Worldly Philosophers: Lives, Times, and Ideas of Great Economic Thinkers* (Robert Heilbroner)

Recommended documentaries

- *American Factory* – Netflix
- *BBC Panorama Amazon The Truth Behind the Click* – <https://www.youtube.com/watch?v=JwrUYS9U-TeU>
- *Beauty Laid Bare* - BBC iPlayer
- *Broken* – Episode on IKEA - Netflix
- *Business mindset for success* – Amazon Prime Video
- *Data centre the true cost of the internet* – Amazon Prime Video
- *Facebook – Cracking the code* – Amazon Prime Video
- *Food unwrapped* - Channel 4 on demand
- *Inside Cadbury chocolate secrets unwrapped* <https://www.youtube.com/watch?v=BB3IJuMNUEk>
- *Inside the supermarket* - https://www.youtube.com/watch?v=_qwucutFTsQ
- *Jobs Vs Gates: The Hippie And The Nerd* – Amazon Prime Video
- *Learn From The Experts* - Elon Musk, Tesla and SpaceX – Amazon Prime Video
- *Learn From The Experts* - Jeff Bezos, Amazon Founder – Amazon Prime Video
- *Panorama amazon: what they know about us* – IPlayer
- *Pepsi vs Coke* – Amazon Prime Video
- *Starbucks Unfiltered* – Amazon Prime Video
- *Steve jobs* – *Billion Dollar Hippie* – Netflix
- *The "Financial Times" Guide to Business Start Up 2008* (Sara Williams)

- *The Millennial Dream* – Amazon Prime Video
- *The Nine to Five with Stacey Dooley* - BBC iPlayer
- *The True Cost* - Netflix
- *Tricky Business* - <https://www.channel4.com/programmes/tricky-business> (4OD)

Recommended films

- *The Founder* – Dvd – Amazon Prime Video or Netflix – Franchising
- *Deep Water Horizon* – DVD - Amazon Prime Video – Ethical issues
- *Trump – What's the deal* – Amazon Prime Video
- *The Internship* – Amazon Prime Video
- *The Social Network* – Netflix
- *The Big Short (15)* – Netflix
- *The Great Hack* – Netflix

Business in the news

Regularly reading the BBC Business News will ensure that you are up to date with key events and announcements. Other free sources of news include The Guardian and The Financial Times.

Tutor2u post articles each day that help you link topics covered in lesson to the world around you. They also post a fun end of week quiz. <https://www.tutor2u.net/business/blog/in-the-news>

Podcasts

GCSE: <https://www.listennotes.com/podcasts/revise-gcse-business-studies-revision-xJQLB4YUo63/>

A Level: <https://www.listennotes.com/podcasts/revise-a-level-business-revision-seneca-uc5pwRC4eQn/>
Competitions

Are you a highly ambitious student interested in attending the Immerse Summer School in Oxford or Cambridge? They offer a variety of summer programmes, from Management to Economics, and if you're looking to showcase your academic skills then this is the essay competition for you! The Immerse Education Essay Competition offers applicants the opportunity to win a 100% scholarship to participate on an Immerse summer programme. Details of the competition, the guidelines, the prizes and important competition dates for your diary can be found on this link. <https://www.immerse.education/essay-competition/>

This year's essays:

16-18 year olds: What business leader has had the biggest impact on society in the last 50 years?

16-18 year olds: Examine the impact of Adam Smith on society.

13-15 year olds: What makes a business 'successful'?

Computer Science

CyberFirst Girls Competition

The CyberFirst Girls Competition aims to support girls interested in a career in cyber security. It provides a fun but challenging environment to inspire the next generation of young women to consider a career in cyber security. The competition is a team event, with each one made up of 4 female students from Year 8. If you are in Year 8 and interested in taking part in this competition you can find out more information by clicking the link below

<https://www.ncsc.gov.uk/cyberfirst/cyberfirst-information-for-schools>

Registration opens 30 November 2020 so if you would like to take part please email kcorneby@wealdgs.org. You can enter as a team of 4 or as an individual or pair and we will create a team for you.

Cyber Discovery

The competition is currently closed but you can register interest with your school email address on the website below and you will be notified when activities and competitions are open again:

<https://joincyberdiscovery.com/>

Wolfram Challenges

<https://challenges.wolfram.com/>

This is a website that has 140+ computational thinking challenges for people of all ages, with topics including algorithms, geography, geometry and sequences. It has an expanding collection of Challenges for both beginners and experienced programmers. You can find a track that fits your interests in coding, math, word puzzles and computational thinking

Hour of Code

Hour of Code is a worldwide campaign that has engaged more than 15% of all students in the world. [Code.org](https://code.org) is supported by donors including Microsoft, Facebook, Amazon and Google. CodeBytes are easy-to-digest, 20 minute interactive lessons that will stream during Computer Science Education Week, December 7-11. Episodes will begin Monday, December 7th. Each episode takes place live at 8:00am PST and 1:30pm PST every day. If you can't make a live episode, recordings can be found on the website below.

<https://code.org/codebytes>

Drama

Please see below a selection of virtual drama trips.

Actors of Dionysus

Actors of Dionysus (aod) are one of the UK's leading theatre companies in the field of Ancient Greek drama. Their productions have been seen by over 750,000 people in theatres and arts festivals across the UK and Europe.

You can now stream their full production of Antigone online for free.

What's on offer:

- Free Online Production
- Suitable for:
- KS3, KS4 & KS5
- Subject links: Classics, Drama & English
- Dates available: Ongoing
- Watch aod's production of Antigone. Click [here](#)
- Read more about the work of aod by clicking [here](#).



Alan Bennett's Talking Heads

Talking Heads is a series of 12 monologues written by Alan Bennett. The series of monologues returns to the BBC with an all-star cast, with all episodes available on the BBC iPlayer.

What's on offer:

- Free Online Productions
- Suitable for: KS4 & KS5 (though dependent on monologue)
- Subject links: Drama & English
- Dates available: Ongoing
- Read more about Alan Bennett's *Talking Heads* by clicking [here](#)
- Watch *Talking Heads* on iPlayer by clicking [here](#).

Battersea Arts Centre

Battersea Arts Centre (BAC) are part of the BBC's 'Culture in Quarantine' series, Filmed in one continuous take, *The Way Out* is an immersive journey through Battersea Arts Centre's labyrinth of rooms and corridors. On a rainy night, a young person escapes into a seemingly empty building and meets a mysterious guide, who offers them an alternative way out.

Follow actor and comedian Omid Djalili (*His Dark Materials*, *The Infidel*) as your enigmatic guide, and join Bláithín Mac Gabhann (*Penance*, Sally Rooney's *Normal People*) on a journey of discovery.

Please note, this performance contains some strong language.

What's on offer:

- Free Online Productions
- Suitable for: KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- View BAC's performance's on BBC iPlayer [here](#).

Bush Theatre

Bush Theatre has launched a series of Monday Monologues. The series brings new work from some of the most exciting UK and Irish writers, including Travis Alabanza, Natasha Brown, Shaun Dunne, Sophie Ellerby and Tristan Fynn-Aiduenu.

Written and recorded during the lockdown, the monologues will be released fortnightly and will be available to watch for the next 12 months. The films are free to watch on their YouTube channel.

What's on offer:

- Free Online Productions
- Suitable for: Dependent on the monologue. See their website for details.
- Subject links: Drama & English
- Dates available: Ongoing, with a new performance every two weeks.
- View the Bush Theatre's Monday Monologues [here](#).

Cirque du Soleil

Enjoy the magical, world-owned performances of Cirque du Soleil from the comfort of your home with #CirqueConnect. Take a front-row seat and enjoy moments from their awe-inspiring performances.

What's on offer:

- Educational Videos
- Free Online Productions
- Suitable for: KS2, KS3, KS4 & KS5 Subject links: Dance, Drama & English Dates available: Ongoing
- Watch Cirque du Soleil's #CirqueConnect Performances [here](#).

Disney's The Lion King

The *Lion King's* "Getting Ready to Roar" documentary gives a unique insight into the intense backstage preparation of the show. The film is perfect for students interested in backstage roles. The documentary is accompanied by supporting education packs for KS3 and KS4.

What's on offer:

- Educational Videos
- Teaching Resources
- Suitable for: KS3, KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- Watch Disney's *The Lion Getting Ready to Roar* Documentary [here](#).

Frantic Assembly

Take a look behind the scenes of the Frantic Method with their new Frantic Digital teaching resource hub. The hub shares insights into the creative and rehearsal process. Also practical, creative tasks and fun, production-related warm-ups.

The site shares educational videos, teaching ideas and resources from past Frantic Assembly productions. Current content includes activities from Beautiful Burnout, Othello and The Curious Incident of the Dog in the Night-Time.

What's on offer:

- Educational Videos
- Teaching Resources
- Suitable for: KS3, KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- View Frantic Assembly's Frantic Digital Hub [here](#).

Gate Theatre

Watch the critically acclaimed Gate Theatre productions of Suzy Storck and The Unknown Island.

What's on offer:

- Free Online Productions

- Suitable for:
- Suzy Storck – KS4 & KS5
- *The Unknown Island* – KS2, KS3, KS4 & KS5
- Subject links: Drama & English
- Dates available: Ongoing
- Watch the Gate Theatre’s Suzy Storck and *The Unknown Island* [here](#).

Hamilton

The smash-hit Broadway production of Hamilton is streaming on Disney+. If you and your children have an account, they can watch this full-length, stage performance as part of the subscription. For those that do not yet have an account, there is a 7-day free trial available for new users.

What’s on offer:

- Online Productions
- Suitable for: KS4 & KS5
- Subject links: Dance, Drama, English, History, Music & Politics
- Dates available: Ongoing
- Learn more about Disney+ [here](#).

Jacksons Lane

A series of mini-films featuring some of Jacksons Lane’s favourite supported artists. Artists will be posting a demonstration of what they do, followed by a simple, short exercise.

What’s on offer:

- Educational Videos
- Suitable for: KS3, KS4 & KS5
- Subject links: Dance, Drama & English
- Dates available: Ongoing
- Watch Jacksons Lane’s JL Shorts [here](#).

Kiln Theatre

Kiln Theatre’s “Kiln Insight” is a new programme of ways to learn more about, and get involved in their work. The programme includes exclusive interviews, webinars and filmed content – all accessible for free.

What’s on offer:

- Educational Videos
- Teaching Resources Suitable for: KS4 & KS5 Subject links: Drama & English
- Dates available: Ongoing
- Learn more about the Kiln Theatre’s Activities & Resources [here](#).

Kneehigh

Kneehigh Theatre Company’s ‘Kneehigh Cookbook’ is a new hub sharing exclusive videos, documents, pictures and plans about their process and work.

For a fun activity, their “Windows to the World” initiative aims to spark your student’s imagination. From puppet making to poetry, one of Kneehigh’s team will demonstrate a creative skill and set you a challenge every weekday at 9am on their YouTube channel.

What’s on offer:

- Educational Videos
- Interactive Activities
- Teaching Resources
- Suitable for: KS3, KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- See Kneehigh’s Resource Hub by clicking [here](#).

Matilda The Musical

Get an in-depth insight into how to create a hit West End musical with the show’s creators Tim Minchin

and Dennis Kelly. Their teaching resources, educational videos, interactive games and activities cover character, plot, music & lyrics, dialogue and writing.

What's on offer:

- Educational Games
- Educational Videos
- Interactive Activities
- Teaching Resources
- Suitable for: KS2, KS3, KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- Find all of the Matilda The Musical Teaching Resources [here](#).

Royal Albert Hall

Over the summer, The Royal Albert Hall created a series of exclusive online sessions. All shows are still available to stream for free and include performances from top names in the music industry.

What's on offer:

- Free Online Productions
- Suitable for: KS2, KS3, KS4 & KS5 Subject links: Drama & Music Dates available: Ongoing
- View all of the Royal Albert Hall's Upcoming Sessions [here](#).

Royal Shakespeare Company

The Royal Shakespeare Company (RSC) has loads of resources, educational videos and activities that you can use for free.

Studying a particular text? Use their Learning Zone to find resources for specific plays. You'll find key facts, key scenes, pictures from past productions, videos of actors and directors working on and performing the plays and find out about all the main characters and how they relate to each other.

What's on offer:

- Educational Videos
- Teaching Resources
- Suitable for: KS1, KS2, KS3, KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- Find out more about the RSC's Educational Offering [here](#). Take a look at the RSC's Learning Zone [here](#).

Sadler's Wells

Sadler's Wells has launched "Digital Stage", streaming full-length dance performances and workshops online. Productions feature companies from across the world, highlighting many different styles of movement and dance.

What's on offer:

- Educational Videos
- Free Online Productions
- Suitable for: KS3, KS4 & KS5
- Subject links: Dance, Drama, English & PE
- Dates available: Ongoing
- View Sadler's Wells Digital Stage by clicking [here](#).

Shakespeare's Globe

Shakespeare's Globe's "Teach Shakespeare" site offers hundreds of free learning resources, educational video and activities to bring Shakespeare to life.

What's on offer:

- Educational Videos
- Facts, Insights & Trivia
- Teaching Resources
- Suitable for: KS2, KS3, KS4 & KS5
- Subject links: Art & Design, Drama, English & History
- Dates available: Ongoing
- See all of Shakespeare's Globe's Free Education Resources by clicking [here](#).

Southwark Playhouse

Southwark Playhouse has launched Southwark Stayhouse – a new online streaming service with full-length shows and exclusive video content. The site will be live until they can open their doors again to the public. Currently playing are their productions of *Wasted*, *Twelfth Night* and *Bound*.

Wasted is a new rock musical about the Brontë siblings in 2018. It's directed by Adam Lenson with music by Christopher Ash and book and lyrics by Carl Miller. Their production of *Twelfth Night* is a fun take on Shakespeare's classic, set at a music festival. *Bound* by Jesse Briton premiered in their old Vault space at London Bridge and went on to be nominated for an Evening Standard Award for Most Promising Playwright. The show also received five stars from the Evening, describing it as 'one of the most accomplished pieces of debut playwriting that I've seen in a long time.'

What's on offer:

- Online Performances
- Suitable for: KS3, KS4 & KS5 Subject links: Drama & English Dates available: Ongoing
- Read more about the Southwark Stayhouse productions [here](#).

The Old Vic

The Old Vic has launched a new education hub providing resources for teachers, students, parents and young creatives. The new hub includes behind-the-scenes insights, careers advice, education packs, educational videos, online workshops and guides.

What's on offer:

- Career Advice
- Educational Videos
- Online Workshops
- Teaching Resources
- Suitable for: Upper KS2, KS3, KS4 & KS5
- Subject links: Art & Design, Citizenship, Drama, English, Music & PSHE
- Dates available: Ongoing
- Information about The Old Vic Education Hub can be found [here](#).

DT and Food

Dyson Challenges

https://www.jamesdysonfoundation.co.uk/resources/challenge-cards.html?gclid=EAlaIQobChMIrqzz-OmL7QIVkmDmCh3gbQMyEAAYASAAEgLKyFD_BwE

complete as many of the Dyson challenges as you can. Take a video or picture of your successful challenge.

Product in a tin.

<http://www.julieboyd.co.uk/my-competitions-events-/product-in-a-tin-compe.html>

Create a product that will fit in a small tin. Be inventive creative and you could submit it for this national competition!

Food

KS3:

- Gourmet Burger Builder. This interactive website goes through the stages of ingredient selection, mixing, dividing and shaping, cooking and assembly. A detailed personalised step-by-step recipe is produced so that you can make and cook your own beef or lamb burger at home. <https://burgerbuilder.ahdb.org.uk/?ref=meatandeducation>
- Steve Spangler Food Science: A collection of food science experiments that can be carried out with adult supervision. <https://www.stevespanglerscience.com/lab/categories/experiments/food-science/>
- The Silver Spoon for Children, This book gives amazing step-by-step guides to cooking a range of regional Italian dishes. <https://www.waterstones.com/book/the-silver-spoon-for-children-new-edition/harriet->

KS4:

- The Food Programme is an outstanding radio programme that investigates every aspect of the food we eat. <https://www.bbc.co.uk/sounds/brand/b006qnx3>
- How to cook the perfect... Food writer Felicity Cloake cooks a selection of tried and tested popular recipes in search of perfect results. GCSE Food Preparation and Nutrition students will gain great insight into how to produce perfect dishes for their NEA2 practical by reading some of these articles. <https://www.theguardian.com/food/series/how-to-cook-the-perfect--->
- Young Cooks Competition: Keep an eye on this organisation for the next competition. It also has a great range of recipes. <http://kentcooks.co.uk/enter>

KS5:

- The Student Food Project website provides recipes, resources and products to help get more students into the kitchen. The recipes are easy to follow, quick and cost-effective to make and perfect for young people looking to learn how to cook before going to university. <https://www.thestudentfoodproject.com/>

Economics

Economics – extra-curricular activities and wider reading

Economics is happening all around us so there are many opportunities to extend and apply our learning in the classroom by reading the business news, listening to relevant podcasts and engaging in subject-related activities. A few suggestions:

Economics in the news

Regularly reading the BBC Business News will ensure that you are up to date with key events and announcements. Other free sources of news include The Guardian and The Financial Times (free account should be available via school).

The Economist is an excellent source of analysis and case studies. This is a paid-for service; however some articles are available for free download from their website and they do offer a substantial discount for a 12 week trial.

Radio 4 offers the following programmes/podcasts, which are fairly easy to listen to but tend to be thought provoking:

More or Less: <https://www.bbc.co.uk/programmes/b006qshd> - this is particularly helpful for developing an evaluative approach and explaining why we should not always believe everything that we read.

50 Things that Made the Modern Economy: <https://www.bbc.co.uk/programmes/p04b1g3c/episodes/downloads> - this covers a wide range of concepts so there should be a programme or two that appeal to everyone.

Recommended wider reading

There are a huge number of excellent books covering a range of economic themes. A few suggestions:

- Ha-Joon Chang has written several books, of particular interest might be: *Bad Samaritan*; *23 Things They Don't Tell You About Capitalism*; *Economics: The User's Guide*
- *Doughnut Economics*, Kate Raworth
- *Prisoners of Geography*, Tim Marshall
- *Winner Take All*, Dambisa Moyo
- *Misbehaving: The Making of Behavioural Economics*, Richard Thaler
- *The Great Economists*, Linda Yueh
- *Thinking Fast and Thinking Slow*, Professor Daniel Kahneman
- *Plundered Planet: How to Reconcile Prosperity with Nature*, Professor Paul Collier

Less challenging books but helpful for examples and encouraging students to think as an economist include:

- *The Undercover Economist*, Tim Harford

- Steven Levitt and Stephen Dubner's very popular *Freakonomics* was published back in 2005. Their more recent book is *When to Rob a Bank: A Rogue Economist's Guide to the World*.

Additional study

- There are various online courses (MOOCs) available on Economic-related topics. They vary in length and do require a time commitment but can be extremely rewarding. A few examples:
- Global Prosperity Beyond GDP: <https://www.futurelearn.com/courses/global-prosperity>
- From Poverty to Prosperity: <https://www.edx.org/course/from-poverty-to-prosperity-understanding-economic>
- What is International Development: <https://www.futurelearn.com/courses/international-development>
- Globalisation in Business: International Business and Global Market Entry Strategies: <https://www.futurelearn.com/courses/globalisation-in-business>

Competitions

The Royal Economic Society run an essay competition 'Young Economist of the Year' each Spring/Summer. This is an excellent way of delving deeper into an area of interest. <https://www.res.org.uk/education/young-economist-of-the-year.html>

Various Oxford and Cambridge colleges run essay competitions throughout the year. As an example, the details of the competition offered by Robinson College, Cambridge can be found here: <https://www.robinson.cam.ac.uk/prospective-students/essay-prize>

The Bank of England and Financial Times run blog writing competition each year. In 2019/20 it focused on the economy and climate change. The topic for 2020/21 has yet to be announced. <https://www.bankofengland.co.uk/education/competitions/ftblog/school-blog-2019-2020>

Are you a highly ambitious student interested in attending the Immerse Summer School in Oxford or Cambridge? They offer a variety of summer programmes, from Management to Economics, and if you're looking to showcase your academic skills then this is the essay competition for you! The Immerse Education Essay Competition offers applicants the opportunity to win a 100% scholarship to participate on an Immerse summer programme. Details of the competition, the guidelines, the prizes and important competition dates for your diary can be found on this link. <https://www.immerse.education/essay-competition/>

This year's essays:

16-18-year olds: What business leader has had made the biggest impact on society in the last 50 years?

16-18-year olds: Examine the impact of Adam Smith on society.

English and Media

Extra-Curricular Opportunities for the English and Media Department

Reading

Mrs Quinnell and Mrs Carter are running the Page Turners reading group. Virtual meetings will take place soon.

Mrs Carter will be producing a library newsletter and there will be lots of opportunities for students to write and get involved. We'll want lots of reviews and recommendations!



Creative Writing



KS3: write a creative response to the theme of 'Celebrations'. (We are working on this in the study support sessions.) It could be a poem, short story, play, letter, news report... anything you like! Try to include some lovely vocabulary, some great imagery and literary devices, such as alliteration, onomatopoeia, similes and metaphors. Be as creative as you can! Deadline December 18th 2020. Upload your work to the folder on share point named: 'Celebrations'.

Mrs Foster and Mrs Howden.

Sita Brahmachari

Remember Sita who came to speak (by video) for EMD day? Well, she is very keen to maintain contact with Weald students and there will be opportunities this term for year 7 students to respond to her recent book, 'When Secrets Set Sail' and Sita has offered to return to Weald (virtually) before Christmas. Lots of activities are available and will be circulated to students in school time. We are the largest cohort of students to have access to this recent novel, so she is keen to find out our views. Very exciting!! Some of our work should appear on her website in "The Conch Gallery" and there will be signed copies of her books to give away to the best contributions.



Poetry

Competition for KS3



Pick a poet of your choice and complete a short project on her/him. Find out some biographical details and copy out/print out and illustrate some of their poems. Find out as much as you can and try and make your project a wonderful tribute to the poet. Deadline: March 2021. For more information, please see Mrs Sherlock.

The Christopher Tower Poetry Competition

<https://www.chch.ox.ac.uk/research-and-academia/enter-tower-poetry-competition>

This competition is for students aged 16-18 and there are cash prizes. It's administered by Oxford University and the theme is "The Key".

Entries close on 1 March 2021.

For more information, please see Mrs Creak/Miss Sales.



New College of the Humanities Essay Competition



Year 12 students in a range of subjects can enter an essay on a topic suggested by this competition. Follow this link to find out more and liaise with your English teachers for more details. However, it's not just English; other subjects include Psychology, Politics, Law, History, Art History, Philosophy and Economics. Check it out. Cash prizes are

on offer!

<https://www.nchlondon.ac.uk/essay/>

Media

A competition is running for KS3, 4 and 5. Please design an advert (either on paper or by making a 30-second video) to advertise your favourite film.

The ad can be drawn by hand, produced on a computer or even stop motion animation. There will be a spot on SharePoint where students can upload their work. Deadline to be announced shortly.

Mrs Cope and Mr Finn are in charge.



World Book Day 2021: 4 March.

There will be competitions and activities to come... Get reading now so you can be involved!



Calling Sevenoaks Writers

We have been asked to work with Southeastern Railways and Network Rail on a writing project for students in the area. We have been especially selected for this which is a great privilege and opportunity! Details are still unfolding, but please see Miss Harvey for more information and get involved!



Geography

Videos

https://timeforgeography.co.uk/videos_list/

Societies

<https://www.amnesty.org.uk/>

Quizzes

<https://www.geography.org.uk/Geographical-quizzes>

Royal Geographical Society

<https://www.rgs.org/geography/news/>

Competitions

<https://www.geography.org.uk/Get-Involved-1/Student-activities/WorldWise-local-quiz>

<https://www.geography.org.uk/WorldWise-Week-resource-packs>

Shell's Bright Ideas Challenge

History

Websites

<https://spartacus-educational.com/>
<https://www.bbc.co.uk/bitesize/subjects/zj26n39>
<https://www.historylearningsite.co.uk>
<https://www.english-heritage.org.uk/learn/>
<https://learning.parliament.uk/en/resources/>

Podcasts

You're Dead to Me - The BBC 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. It covers topics from the Pyramids to LGBTQ history.

Home-school history - Fun history lessons for all the family, presented by Horrible Histories' Greg Jenner. Full of facts and jokes, the series brings to life a broad range of historical topics.

Dan Snow's History Hit - The most exciting and important things that have ever happened on the planet! Featuring reports from weird and wonderful places around the world where history has been made and interviews with some of the best historians writing today. Dan also covers some of the major anniversaries as they pass by and explores the deep history behind today's headlines - giving you the context to understand what is going on today.

The Bowery Boys - Presented by two New Yorkers, Greg Young and Tom Meyers, who explore the treasured history of Brooklyn, or behind the scenes of New York's celebrated comedy scene.

The Past and the Curious - a history podcast for kids and families.

Online activities

<https://www.english-heritage.org.uk/learn/teaching-resources/>

English Heritage learning resources are free educational tools packed with everything you need to give your learners a deep insight into the history of our places. Our team of qualified teachers, educational experts and historians have developed over 100 resources to choose from, each tied to curriculum learning.

<https://www.hrp.org.uk/schools/five-brilliant-history-resources-for-home-schooling/#gs.l5dfnp>

Five different learning resources covering a variety of different activities linked to English palaces.

<https://www.history.org.uk/secondary/categories/secondary-competitions>

The Historical Association run a number of different competitions for secondary school pupils.

<https://www.raf100schools.org.uk/info/82/raf100-history-and-local-history-competitions>

RAF 100 History run a number of competitions for KS3, KS4 and A-Level pupils.

<https://www.100greatblackbritons.co.uk/competition.html>

A competition to create a unique and exciting way to celebrate Great Black Britons. Parents, families, and young people can get involved in the competition, share their ideas, their knowledge, and be creative!

<https://www.sheffield.ac.uk/history/essay-competition>

Sheffield University essay competition for A Level pupils.

Mathematics

Are you a keen code breaker? Would you like to try your hand at becoming a spy?

Every spring, Manchester University organises a competition for teams to take part in a code breaking exercise. You can try last year's codes at:

https://www.maths.manchester.ac.uk/cryptography_competition/index.php

And then prepare your team to end the 2021 competition, open to anyone in Year 7-11.

For Year 12 and 13, there's a similar competition:

<https://www.maths.manchester.ac.uk/mathsbombe/index.php>

Key Stage 3 Students

[Sumdog.com](https://www.sumdoggames.com/)

A game website which allows you to pit your wits against other students across the country and try out lots of maths questions to win points and games.

All students

Nrich is a great website with puzzles and challenges for all levels.

<https://nrich.maths.org/>

Online Chess Club

We are starting an online chess club using the website chesskid.com which is a great website for playing games and learning tactics. It is a very safe website dedicated to children and really easy to use. Once we have a few members we will organise matches and a league and a cup competition. Once you have created an account, contact Mr Cartwright via your school email and he will send you details of the club for you to join.

Modern Foreign Languages

French

Reading Club

The “Il y a un an” section (right hand of page) of each newspaper type (left menu) is the free archived edition:

KS3 = Le Petit Quotidien 6-10 FR Yrs

<https://lepetitquotidien.playbacpresse.fr/>

KS3-4 = Journal des Enfants

<https://lepetitquotidien.playbacpresse.fr/>

KS4 = Mon Quotidien 10-14 FR yrs

<https://monquotidien.playbacpresse.fr/>

KS5 = L'Actu 14-17 FR yrs

<https://lactu.playbacpresse.fr/>

<https://leco.playbacpresse.fr/> (more challenging version of the above)

Video resources to accompany:

<https://monquotidienvideo.playbacpresse.fr/>

<https://lactuvideo.playbacpresse.fr/>

TV/Film Recommendations

Corneil et Bernie – the story of Corneil, a genius talking dog who hides his intelligence to protect his pampered life, and Bernie, an unwitting dogsitter who discovers his secret.

Titeuf – this classic coming-of-age tale follows the adventures of Titeuf, eight years old, and his friends Manu, Hugo and François as they navigate their murky pre-teen years. One of the more profound series geared toward children, the characters aren't afraid to approach subjects such as seduction and crushes, but never in a way that would cause offence.

Les Zinzins de l'espace - five aliens crash land on Earth and hide in the attic of a rental house while coming up with harebrained schemes to return to their home planet, always with disastrous consequences.

For a comprehensive list of recommended French books and films, please click [here](#).

Vocabulary

<https://www.freerice.com/categories/french>

A vocabulary-learning website that donates rice to developing countries based on the website use.

Current Affairs (KS4/5)

<https://www.1jour1actu.com/> (French children's news website)

Choose a category and find a video to watch, making notes of any new vocab you come across

read an article on something that interests you and write a short summary of it

listen to a podcast episode and create a summary sheet to share with a partner/the class on what you have learnt from it.

Projects

Look up a French episode of Peppa Pig (or any children's cartoon) on YouTube to watch with English subtitles and make a tally of every time you hear a French word you recognise!

Research the popularity of French comic books, find an example (Tintin or Asterix et Obelix are good options!) then create your own A4 version of a comic book on the topic you are currently studying, with French speech/descriptions!

Look up a popular/traditional French dish and make it at home!

Find a French YouTube tutorial for creating something (e.g. a recipe, origami, etc.) and follow it to create the item!

German

Why not try reading some German books, watching some German films or listening to some German music?! Have a look at the list below for some ideas!

German Reading List: Key Stage 3

Aschenputtel

ELI German Easy Readers

ISBN 9788881487097

Using basic words and structures, this simplified version of the popular Brothers Grimm story, 'Cinderella' features lively, full-colour pictures and vocabulary pages which introduce children to essential everyday German. The simple story is accompanied by illustrated fold-out pages which highlight key vocabulary and new verbs.

Der Hase mit der roten Nase

Helme Heine

A lovely, simple story about a unique rabbit with a red nose and one blue ear. When the fox doesn't recognise him as a rabbit, he realises how lucky he is and loves being different.

Oh wie schön ist Panama

Janosch

The books by author Janosch are favorites among children and adults alike in Germany. This is a story of a little bear and his tiger friend who find an empty crate that smelled of bananas. When the little bear and tiger find out that the crate comes from Panama, they set off on an adventure to find this exotic paradise. I'll let you find out the ending for yourself! There was also an accompanying TV series of which many episodes can be found on YouTube.

Für Hund und Katz ist auch noch Platz

Julia Donaldson/Axel Scheffler

There's always room for one more on the broom... or is there? A witch and her cat fly through the night on their broomstick. All is well until the witch's black hat blows away. In the process of retrieving it, they pick up another passenger, a polite and helpful dog. Next, the witch's hair bow flies off. And then her wand. And then real disaster strikes...the broom breaks!!

Der Räuber Hotzenplotz

Otfried Preußler

Is a merry tale of two scoundrels, two friends, a toad-fairy and an unforgettable escapade! The Robber Hotzenplotz works hard at his job, waking early to hide in the woods and waylay new victims. One morning Kasperl's grandmother is sitting in the sun outside her house, grinding coffee in her new musical coffee mill a birthday gift from Kasperl and his best friend Seppel when suddenly Hotzenplotz, attracted by the music, leaps out to steal the mill. Sergeant Dimplemoser hears Grandmother's cries and comes to her aid, but Hotzenplotz has evaded the useless police for years. So Kasperl and Seppel vow to catch the robber themselves. But catching robbers is not as easy as all that ... Kasperl and Seppel soon discover that even the best-laid plans can be foiled, especially when Hotzenplotz enlists the help of his wicked magician friend Petrosilius Zackleman, a gluttonous villain with a weakness for fried potatoes.

German Film List: Key Stage 3

Das Schönste Mädchen Der Welt (2018)

The Most Beautiful Girl in the World is a 2018 German comedy film. Cyril, a young musician with self-esteem issues, writes songs for Roxy, the new girl in school, but allows her to believe they came from the more attractive but dimwitted Rick, thinking that Roxy prefers him.

Das Tagebuch der Anne Frank (2016)

The Diary of Anne Frank is a German drama film. During the Second World War, the Jewish Frank

family went into hiding in a secret annexe at Prinsengracht 263 in Amsterdam. 13-year-old Anne recorded all her experiences in a diary, which she had been given for her thirteenth birthday.

Der Haus der Krokodile (2012)

Victor and the Secret of Crocodile Mansion is a German adventure film. Victor finds a diary in his great-uncle's mansion among African masks and stuffed crocodiles. The book and its drawings reveal a long-hidden secret about a young woman who died

in the house many years earlier.

Heidi (2015)

Heidi is a 2015 Swiss family film directed by Alain Gsponer and based on the 1881 novel of the same name by Johanna Spyri. A story of a young girl who lives in the Swiss Alps with her goat herding Grandfather.

Jim Knopf und Lukas Der Lokomotivführer (2018)

Jim Button and Luke the Engine Driver is about an orphan boy in search of his origin. A young princess held prisoner in deadly Dragon City. Jim and his friend Luke discovering mysterious lands on the quest of a lifetime.

Tintenherz (2008)

Inkheart is a 2008 British-American-German fantasy adventure film. A teenage girl discovers her father has an amazing talent to bring characters out of their books and must try to stop a freed villain from destroying them all, with the help of her father, her aunt, and a storybook's hero.

Ostwind – Zusammen Sind Wir Frei (2013)

Windstorm is a German adventure film. While spending the summer at her grandmother's farm, a girl (Hanna Höppner) discovers a talent for communicating with horses and tries to tame a fierce stallion.

German Music List: Key Stage 3

Mark Forster
Wincent Weiss
Xavier Naidoo
Clueso
Sarah Connor

Max Gesinger
Andreas Burani
Tim Bendzko
Helene Fischer
Namika

Spanish

Vocabulary

www.freerice.com/categories/spanish

A vocabulary-learning website that donates rice to developing countries based on the website use.

www.rockalingua.com/games For vocabulary-based games and quizzes, etc.

www.bbc.co.uk/languages/spanish/mividaloca An educational mini TV series.

TV/Film Recommendations

Zip y ZaP – available on Netflix

Coco – lots of Spanish vocabulary and strong focus on cultural element of Dia de los Muertos

KAZOOPS (Netflix) - Monty and his best friend (a pet pig) go on adventures through time and space in this family-centered Spanish cartoon.

POCOYO (Netflix) - Pocoyo is a preschool educational series that was originally created in Spanish. This is a great show for absolute beginners, as the phrases tend to be more isolated and easy to catch.

... and more! Just search 'Spanish' on Netflix/Prime, etc. to discover more great shows or films!

Projects

Research a Spanish festival, creating an invitation for it, and an information leaflet!

Watch *Coco* and list all of the Spanish words in the film, then create your own mask for El Dia de Los Muertos using the words as decoration!

Look up a popular/traditional Spanish dish and make it at home!

Find a Spanish YouTube tutorial for creating something (e.g. a recipe, origami, etc.) and follow it to create the item!

Music

The music department can offer:

- A variety of online concert opportunities including, the Philharmonia Orchestra, Berlin Philharmonic Orchestra Digital Concert Hall and Tenebrae Choir.
- Develop your knowledge and understanding of Jazz through the Jazz at Lincoln Center Big Band led by the great trumpeter Wynton Marsalis.
- Learn how to play in a variety of styles on Piano with Jonny, about all things drumming with Drumeo and guitar with Andrew Keeping.
- Other online workshop activities include the Voces8 Vocal Academy.
- We can offer much more. For more details please contact the music department at music@wealdgs.org

Physical Education

PE Extra-Curricular web links

Try these helpful links to improve your skills and match/game play from home. Always play/practice in a safe, well-lit area with adult supervision. Make sure you have some equipment i.e ball, basket, stick, bat, goal etc (or improvise with what you have at home).

Shooting

<https://www.youtube.com/watch?v=vIjUwN6rV5E>
https://www.youtube.com/watch?v=g2Z__azwQMs
<https://www.youtube.com/watch?v=sQf6CkbUj10>
<https://www.youtube.com/watch?v=cM5VlwSaj7g>

Drills

<https://www.youtube.com/watch?v=TxfQDty53g8>
<https://www.youtube.com/watch?v=k68IHP2RKXU>
https://www.youtube.com/watch?v=xq_I4PRCZBI
<https://www.youtube.com/watch?v=nXj3XF1TBRw>

Mid court exercises

Football

<https://www.youtube.com/watch?v=Tzg0wzSehn0>
<https://www.youtube.com/watch?v=wTyH7iBbgWY&list=PL4BXDGWq2Rwoe4iyNTc28I9ySuMwPa6w4>
<https://www.youtube.com/watch?v=X-Opa238mos&list=PL4BXDGWq2Rwoe4iyNTc28I9ySuMwPa6w4&index=3>
<https://www.youtube.com/watch?v=4XHnkrTPm4&list=PL4BXDGWq2Rwoe4iyNTc28I9ySuMwPa6w4&index=4>
<https://www.youtube.com/watch?v=Wb3soBMugE4&list=PL4BXDGWq2Rwoe4iyNTc28I9ySuMwPa6w4&index=8>
<https://www.youtube.com/watch?v=0mQVITFHdnQ&list=PL4BXDGWq2Rwoe4iyNTc28I9ySuMwPa6w4&index=10>
https://www.youtube.com/watch?v=7F0kRQvcP_c

Basketball

<https://hooptactics.net/>
<https://basketballphantom.com/help-guides/>

Shooting

<https://www.youtube.com/watch?v=UFWIt0P2czo>

Rugby

Netball

<https://www.youtube.com/watch?v=J9xLJHVxt6E>

Footwork

https://www.youtube.com/watch?v=CNg_edotSx0

Ball handling skills

<https://www.youtube.com/watch?v=i4PxnXzE7vY>

<https://www.youtube.com/watch?v=WR6nIIZV1f0>

https://www.youtube.com/watch?v=dB_ITy3xVis

Defensive Drills

<https://www.youtube.com/watch?v=Gb93EGRDSbA>

How to train 'Fast Feet' & 'Getting around a player'

Ball control

https://www.youtube.com/watch?v=XJfCL9yx6eg&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO&index=5

https://www.youtube.com/watch?v=s6yr2JLc_cw&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO&index=8

https://www.youtube.com/watch?v=Nx3o_-Nn2_0&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO&index=9

Passing

<https://www.youtube.com/watch?v=UORpjAsWU4A>

Footwork

<https://www.youtube.com/watch?v=oDoXRWGnVGQ>

Animal walks

https://www.youtube.com/watch?v=3OXk2NatgyM&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO

Evasive

https://www.youtube.com/watch?v=RM4ifpdPmhY&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO&index=3

https://www.youtube.com/watch?v=8ruef2RVXJU&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO&index=7

Kicking

https://www.youtube.com/watch?v=MB0QqJIVqO4&list=PLcSP18b0KfWPOjVsZB7HqEUQ_LP9B7BZO&index=4

<https://www.youtube.com/watch?v=-z6cY2PM11s>

<https://www.youtube.com/watch?v=zGZ7iDBFJ-0>

<https://www.youtube.com/watch?v=ZMUcaGITF5g>

https://www.youtube.com/watch?v=Hbn-m_JVWT0

<https://www.youtube.com/watch?v=34RTPeKkR1U>

<https://www.youtube.com/watch?v=JSJ6oFjnVF0>

<https://www.youtube.com/watch?v=UVi88-tQ-JI>

<https://www.youtube.com/watch?v=hBZ86RrgaCY>

https://www.youtube.com/watch?v=thm4Q766D_Q

<https://www.youtube.com/watch?v=x2yois9bzEE>

Skills & Drills

<https://www.youtube.com/watch?v=aoVByL2GUz0>

<https://www.youtube.com/watch?v=A3-zJiiEAs>

https://www.youtube.com/watch?v=wh0_5lg6te8

Athletics

https://www.youtube.com/watch?v=1K_BFsJ8vHE

<https://www.youtube.com/watch?v=nUpgdG6Byho>

<https://www.youtube.com/watch?v=OfQZWBURnZY>

<https://www.youtube.com/watch?v=qefHF4iZy6g>

https://www.youtube.com/watch?v=_vP8cpcEu1s

Cricket

https://www.youtube.com/watch?v=_kiPmPtHr7M

Batting

<https://www.youtube.com/watch?v=YkYmkgLrKAs>

Tips and tricks

<https://www.youtube.com/watch?v=UVi88-tQ-JI>

Hockey

<https://www.youtube.com/watch?v=sNtmwUT8Chk>

<https://www.youtube.com/watch?v=nHipZkBwLzw>

<https://www.youtube.com/watch?v=5GjQpOQNeBY>

<https://www.youtube.com/watch?v=MAkm9KNvxTE>

Politics

Books

General Reading

Anthony King *The Blunders of Governments*

Bernard Crick *In Defence of Politics*

Gerry Stocker *Why Politics Matters: Making Politics Work*

Heffernan, Cowley & Hay *Developments in British Politics*

Julian Knight *British Politics for Dummies*

Kenneth Minogue *Politics: A Very Short Introduction*

Paul Kelly *The Politics Book*

Tony Wright *British Politics: A Very Short Introduction*

Paul Collier 'The Bottom Billion'

Isabel Hardman, *Why we get the wrong politicians*

David Goodhart, *The Road to Somewhere: The New Tribes Shaping British Politics*

Robert Peston, *WTF?*

David Van Reybrouck, *Against Elections: The Case for Democracy*

Jon Davis and John Rentoul, *Heroes or Villains? The Blair government reconsidered*

Manuel Arriaga, *Rebooting Democracy: A citizen's guide to reinventing politics*

Nick Clegg, *Politics: Between the extremes*

Robert Winnett and Gordon Rayner, *No Expenses Spared: The riveting story of the investigation that brought the government to its knees*

A.C. Grayling, *The Good State: On the Principles of Democracy*

David Runciman, *How Democracy Ends*

Ayesha Hazarika, *Punch and Judy Politics: An Insiders' Guide to Prime Minister's Questions*

The UK constitution

Anthony King *Who Governs Britain?*

Martin Loughlin *The British Constitution: A Very Short Introduction*

British Politics & History

Andrew Marr *A History of Modern Britain*

Andrew Rawnsley *The End of the Party*

Seasons in the Sun: The Battle for Britain, 1974-1979,

State of Emergency: The Way We Were: Britain, 1970-1974

John Campbell *The Iron Lady*

John Murray and Anthony Sampson *Who Runs This Place?: The Anatomy of Britain in the 21st Century*

Jeremy Paxman published a book on the First World War and he also made a documentary based on it, *Great Britain's Great War*

Jonathan Powell, *The New Machiavelli*

Stephen Richards, *The Prime Ministers*

US Government and Politics

Jon Sopel, *If only they didn't speak English: Notes from Trump's America*

Michael Wolf, *Fire and Fury: Inside the Trump White House*

Bob Woodward, *Rage – the Trump presidency*

Barack Obama, A Promised Land

Current affairs

Newspapers and magazines

The Times, The Guardian, Telegraph, Spectator, The Economist, and the New Statesman have excellent websites. The Huffington Post is a useful online newspaper. You can also find politics news on BuzzFeed UK and Vice. Politics Review also pinpoints the important stories for you're a-level.

www.politics.co.uk is an informative websites to help keep up to date.

Blogs

Include LabourList and ConservativeHome for a party focus, The Spectator and the New Statesman have lots of useful political blogs.

Podcasts

The Political Party – A comedic look at the world of politics. This starts off with a short stand up routine by Matt Forde, followed by an interview with a leading politician. Though often funny, the podcast is often surprisingly in depth at times.

Talking Politics – A weekly podcast covering international and domestic affairs. Informative discussions with a range of political experts.

Political Thinking with Nick Robinson – Nick Robinson discusses the biggest stories in politics, while also interviewing big names in UK politics

Reasons to be Cheerful – Politics related podcast which takes one particular idea and discusses it.

UnHerd – attempts to take an unbiased look at politics, with a focus on the lesser known news.

CakeWatch – A podcast focusing on Brexit

Pod Save America – American government and politics focused podcast

Psychology

Books

Bounce by Matthew Syed

The Myth of Talent and the Power of Practice.

Flow by Mihaly Csikszentmihalyi. The classic work on how to achieve happiness.

Mindset by Dr. Carol Dwek. Changing the way you think to fulfil your potential.

Thinking Fast and Slow by Daniel Kahneman. The author states that our minds are composed of two parts- an instinctive and primal section, and a more critical and rational section.

Outliers: The Story of Success by Malcolm Gladwell. How the world's most successful people became successful.

Authentic Happiness by Martin Seligman. The author shows us that happiness is more a product of internal conditions than external factors.

Blink by Malcolm Gladwell. The power of thinking without thinking. Assessments that we make in the blink of an eye can be as good as those we make after much deliberation.

Phantoms of the brain; probing the mysteries of the human mind by V.S Ramachandran. Unravelling the weirder cases in neurology can provide insights into how we perceive ourselves.

Steven Pinker: How the mind works. Why do memories fade? Why do we lose our tempers? Why do fools fall in love? Why do we pursue higher callings like art, religion and philosophy?

Carl Jung; the Archetypes and the Collective Unconscious. Our minds are connected to a deeper layer of consciousness that speaks in terms of imagery and myth.

Eric Berne: The Games People Play: The Psychology of Human Relationships. People play games as a substitute for real intimacy, and every game, however unpleasant, has a payoff for one or both players.

Victor Frankl: The Will to Meaning. The conscious acceptance of suffering or fate can be transformed into one of our greatest achievements.

Ted Talks

The Lucifer Effect: Understanding How Good People Turn Evil. TED talk by Philip Zimbardo. <https://www.youtube.com/watch?v=2-Kii-P7vwQ>

The Psychology of Tyranny: Did Milgram Get It Wrong? TED talk by Alex Haslam. <https://www.youtube.com/watch?v=HxXMKg8-7o0>

How reliable is your memory? TED talk by Elizabeth Loftus. <https://www.youtube.com/watch?v=PB2Oegl-6wvl>

Podcasts

- Mind Changers. BBC Radio 4. B.F Skinner and Superstition in the Pigeon. <http://www.bbc.co.uk/programmes/b0639gxq>

- Mind Changers. BBC Radio 4. Julian Rotter and Locus of Control. <http://www.bbc.co.uk/programmes/b01gf5sr>
- Mind Changers. BBC Radio 4. Case Study: HM-The Man Who Couldn't Remember. <http://www.bbc.co.uk/programmes/b00t6zqv>
- Mind Changers: Carl Rogers and the Person Centred Approach. <http://www.bbc.co.uk/programmes/b063ztb0>
- Mind Changers: Abraham Maslow and the Hierarchy of Needs. <http://www.bbc.co.uk/programmes/b01rw8mw>
- Mind Changers: The case of Little Hans. <http://www.bbc.co.uk/programmes/b00bg335>

Film/TV

- *12 Angry Men* (PG) Plot: A diverse group of 12 jurors deliberates the fate of an 18-year-old Latino accused of murdering his father. As a lone dissenting juror tries to convince the others that the case is not as open and shut as it appears, individual prejudices and preconceptions about the trial emerge.
- *Good Will Hunting* (15). Plot: Will Hunting is a young, headstrong janitor at MIT with exceptional mathematical abilities. Abused as a child, he has numerous run-ins with the law and does not realize his full potential. With the help of a psychology professor, he finally receives the counselling he needs that will enable him to find his identity and change his life.
- *Memento* (15). Plot: Leonard Shelby is an ex insurance investigator who sustains a head injury when trying to prevent his wife's murder and now suffers from amnesia. He learns how to cope with his condition using notes and tattoos as he tries to find the murderer and avenge her death. Links to Memory.
- Nancy Kanwisher talks about a neural portrait of the human mind. This talk deals with brain localisation. <https://www.youtube.com/watch?v=5Yj3nGv0kn8>
- Documentary: *Genius of the modern world*. Dr. Sigmund Freud. It's always worth understanding Freud in his historical context. This documentary will allow you to do this. <https://www.youtube.com/watch?v=x6MT50IAs7w>
- RISE documentary: Do you know the meaning of the term 'recidivism'? Watch this documentary to find out. <https://www.youtube.com/watch?v=n3id1jxXLgM>
- *Girl Interrupted* (15). 18 year old Susanna is admitted into a mental institution when she is no longer able to cope with reality.
- *Rain Man* (15). The real life story of a Kim Peek; a savant.

Religious Education

Title/link	What is it about?	RE topic links
A very British Ramadan	<p>A documentary that follows Rashid Khan as he travels across Britain to explore the logistical preparations for the holy month of Ramadan.</p> <p>The programme will hear from a range of British Muslims throughout Ramadan on how they cope with daily life, and the physical and spiritual effects of fasting.</p>	<ul style="list-style-type: none"> • Islam • British Muslims • Festivals • GCSE Islamic practices

<p>Strictly Kosher</p>	<p>Strictly Kosher revolves around three families and their friends and paints a fascinating picture of the many different personalities and levels of religious observance in Manchester's Jewish community. It offers an insight into lifestyles which range from one extreme – orthodox and strict - to the other – traditional and extravagant - a diverse community bound together by one faith.</p>	<ul style="list-style-type: none"> • Judaism • Festivals • British Jews
<p>The story of Vaisakhi</p>	<p>This programme explores the rituals through which the festival is celebrated today, and examines how Vaisakhi's themes - tolerance, equality, humility, dignity and an active concern for others - impact the daily lives of Sikhs.</p>	<ul style="list-style-type: none"> • Sikhism • Festivals • British Sikhs
<p>Rebuilding Notre Dame</p>	<p>Documentary that goes inside what remains of the world-famous Notre-Dame Cathedral in Paris. It is one year since the inferno devastated the vast timber and lead roof and the 850-year-old gothic masterpiece is still perilously close to collapse. Now, we follow the men and women fighting to secure the fire-ravaged structure.</p>	<ul style="list-style-type: none"> • Christianity • Places of worship
<p>Sacred journeys – Lourdes</p>	<p>Since the end of World War II, soldiers from around the world have journeyed to Lourdes seeking healing and unity with one another at a week-long gathering known as the International Military Pilgrimage.</p>	<ul style="list-style-type: none"> • Christianity • Catholicism • Pilgrimage • GCSE Christian practices
<p>Life and death the Pentecostal way</p>	<p>With unprecedented access to the workings of a Pentecostal church in London, this one-off documentary in the Black & British season lifts the lid on a faith that is growing fast.</p>	<ul style="list-style-type: none"> • Christianity • GCSE Christian practices • Prayer and worship
<p>My Turban and me</p>	<p>Documentary. Comedian Sanjeev Kohli explores the importance of wearing the Sikh turban in modern Britain and investigates why it is becoming more popular with young people.</p>	<ul style="list-style-type: none"> • Sikhism • Sikh identity • British Sikhs
<p>Young, Welsh and pretty religious</p>	<p>A fresh and eye-opening look at religion and faith in the Welsh Under-30's.</p>	<ul style="list-style-type: none"> • World faiths • Religious identity

Sacred rivers: The Ganges	Simon Reeve follows the sacred waters of the Ganges from source to sea, exploring how India's economy has affected its religious culture.	<ul style="list-style-type: none"> • Hinduism • Religious identity
Seven wonders of the Buddhist world	In this fascinating documentary, historian Bettany Hughes travels to the seven wonders of the Buddhist world and offers a unique insight into one of the most ancient belief systems still practised today.	<ul style="list-style-type: none"> • Buddhism • Religious identity
The Tiger and the Monk	Wat Pa Luangta Bua is a monastery of meditation, situated far away from any civilization, about 200 kilometers west of Bangkok, and here, silence, peace and harmony reign. Every afternoon, a daily ritual is observed -- nonchalant Buddhist monks take their ten 3-5 year old tigers out on a leash for a walk through the bordering region of Burma. They dote upon their tigers, feed them and celebrate them as their most sacred animal.	<ul style="list-style-type: none"> • Buddhism
The story of God with Morgan Freeman – The power of miracles	Morgan sets out to discover why we believe in miracles and how they shape our understanding of God. Many believe God does intervene in our world.	<ul style="list-style-type: none"> • The existence of God
Richard Dawkins: The root of all evil	The Root of All Evil?, later retitled The God Delusion, is a television documentary written and presented by Richard Dawkins in which he argues that humanity would be better off without religion or belief in God	<ul style="list-style-type: none"> • Atheism
The genius of Charles Darwin	Richard Dawkins presents the ultimate guide to Charles Darwin and his theory of evolution.	<ul style="list-style-type: none"> • Atheism
Strictly soulmates: Christian/ Muslim	Series in which members of different faiths look for their perfect partner	<ul style="list-style-type: none"> • Relationships and families • Religious practices
Epic journey to the holy land (Jerusalem)	Simon Reeve travels on to the Holy Land (Jerusalem) to discover its history and life there today.	<ul style="list-style-type: none"> • The Abrahamic religions (Christianity, Judaism and Islam)
The life of Muhammad	British journalist Rageh Omaar travels to the birthplace of Muhammad, documenting the prophet's life from his beginnings in Mecca to his death in 632.	<ul style="list-style-type: none"> • Islam • Religious founders • GCSE Islamic beliefs

<p>Young, Sikh and proud</p>	<p>Journalist Sunny Hundal explores the legacy of his late brother Jagraj Singh, the most popular Sikh leader in modern Britain, who, after turning from westernised 'party animal' to religious preacher, went on to spark an unprecedented revival of young people returning to the faith.</p>	<ul style="list-style-type: none"> • Sikhism • British Sikhs • Religious identity
<p>The Battle for Christianity</p>	<p>Professor Robert Beckford looks at how immigration, radical social action, conservative morality and charismatic worship are transforming the face of Christianity in the UK.</p>	<ul style="list-style-type: none"> • Religious identity • Religion in the UK • GCSE Christian practices
<p>Reverse missionaries</p>	<p>Idealistic modern day missionaries travel to Britain to discover the historical roots of their faith and try to pursue their own missionary agenda in 21st century Britain.</p>	<ul style="list-style-type: none"> • Sikhism • British Sikhs • Religious identity
<p>Britain's Easter story</p>	<p>Gareth Malone and Karen Gibson uncover more of the history, music and traditions linking Britain to Easter, in the second of two special programmes. They travel across the country to explore how celebrations have changed over the centuries, taking in sites as varied as Whitby, Glastonbury, Hampton Court and Leeds.</p>	<ul style="list-style-type: none"> • Christianity • Festivals • GCSE Christian practices
<p>Passover: Why is this night different?</p>	<p>An engaging, entertaining and warm look at the meaning of Passover. Giles Coren helps host a special seder, with guests including philosopher Alain de Botton, comedienne Olivia Lee and experts Rabbi Naftali Brawer, Rabbi Laura Janner-Klausner and chef Linda Dangoor.</p>	<ul style="list-style-type: none"> • Judaism • Festivals • Religious identity
<p>Tsunami: Where was God?</p>	<p>Taking as his subject the Indian Ocean tsunami of Christmas 2004, former Dominican Friar Mark Dowd confronts a question that has troubled religious thinkers for centuries: how can belief in a benevolent God be reconciled with natural disaster?</p>	<ul style="list-style-type: none"> • The existence of God and revelation

<p>Sacred wonders</p>	<p>At Angkor Wat in Cambodia, a man who believes the temples are home to his ancestral spirits risks his life to save them from the jungle. At al-Aqsa in Jerusalem, a young Muslim paramedic battles his own hunger and exhaustion to help other fasting worshippers during Ramadan. And at the Shaolin Temple in China, a Buddhist warrior monk faces a test that will change the course of his life forever.</p>	<ul style="list-style-type: none"> • World faiths • Religious identity
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General Youtube channels

The Bible project <https://www.youtube.com/user/jointhebibleproject>

- Explanations of Bible themes and ideas
- Re-telling of Bible stories
- Deep exploration of Bible teachings
- Beautifully animated.

The School of Life <https://www.youtube.com/user/schooloflifechannel>

- Section on philosophy
- Explains ideas of key philosophers.

Crash course, Philosophy What is Philosophy?: Crash Course Philosophy #1 Click [here](#).

Crash course, World religions Religion: Crash Course Sociology #39 Click [here](#).

Science - Biology

Websites

<https://www.wwf.org.uk/learn> (World Wildlife Fund education section)

https://kent.wildwoodtrust.org/?gclid=CjwKCAjwIZf3BRABEiwA8Q0qq8LicTteT6M0DFTGYKwzv2m-hQCv59ccmykksLTTqS16ImA1FLMAUrxoCy0EQAvD_BwE (Wildwood Trust Kent for animals closer to home)

<https://www.sciencemuseum.org.uk/virtual-tour-science-museum> (You can complete a virtual tour of the science museum)

https://www.themedicportal.com/?gclid=EA1alQobChMI5fOY7eSO7QIVCZ_VCh1P2gKeEAAAYASAAE-gL-g_D_BwE (A great website for aspiring doctors)

<https://www.rsb.org.uk/students> (The main Biology Society of the UK)

Documentaries

The Royal Society of Biology YouTube Channel

The key society on Biology in this country. Keep up to date on current Biological ideas. Follow this particular link to a lecture on “Marine plastics: is it too late to save our oceans?”



Climate Change – The Facts

By BBC

Sir David Attenborough looks at the science of climate change and potential solutions to this global threat. Interviews with some of the world’s leading climate scientists explore recent extreme weather conditions such as unprecedented storms and catastrophic wildfires.



Seven Worlds, One Planet

By BBC

Revealing the extraordinary wildlife stories and unseen wilderness of our seven unique continents with Sir David Attenborough.



Sci Show YouTube Channel

A channel of short interesting facts relating to all aspects of science in a digestible format. Can also highlight some key current news.

Click [here](#)

DNA and Genetics: The Scientific Discoveries of The 21st Century

Hosted by Bill Nye

This DNA and genetics scientific discoveries documentary highlights the influence DNA and genetics have on cells. Discoveries of the 21st century are also spoken of as well as answering the question what is DNA and genes?



Other links:

David Attenborough Videos on BBC iPlayer <https://www.bbc.co.uk/iPlayer/group/p03szck8>

How movement drives evolution <https://www.youtube.com/watch?v=jN7VkjJuOR4>

Will blindness be eliminated in my lifetime? <https://www.youtube.com/watch?v=USc61i1kfLo>

What do hairs have to do with hearing? <https://www.youtube.com/watch?v=E8hltCAK4ml>

Race to crack the genetic code <https://www.youtube.com/watch?v=MYxASuEqMIY>

The 2013-2016 Ebola epidemic https://www.youtube.com/watch?v=ahpP6_nJ15U

Antimicrobial Resistance: The end of modern medicine https://www.youtube.com/watch?v=2H_Ox1vVnTc

Why is life the way it is? <https://www.youtube.com/watch?v=PhPrimk8F4>

If brains are computers, who designs the software? <https://www.youtube.com/watch?v=TTFoJQSd48c>

The evolution of males and females <https://www.youtube.com/watch?v=En26p6GvtHw>

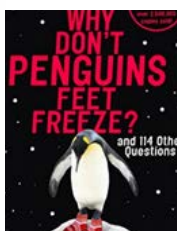
The future of your genetic health <https://www.youtube.com/watch?v=41fGH6efFqU>

Biology reading list



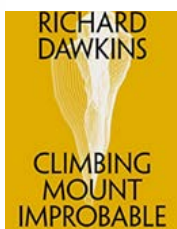
Life at the Extremes, by Frances Ashcroft

"How do people survive extremes of heat, cold, depth, speed and altitude? This book explores the limits of human survival and the physiological adaptations which enable us to exist under extreme conditions."



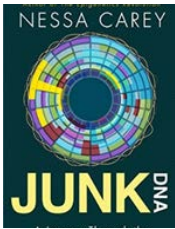
Why don't penguins feet freeze? by New Scientist

"A compilation of readers' answers to the questions in the 'Last Word' column of New Scientist, the world's best-selling science weekly. This is not just linking to Biology but Chemistry and Physics as well!"



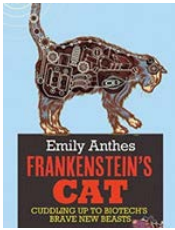
Climbing Mount Improbable, by Richard Dawkins

'How could such an intricate object as the human eye - so complex and so precise - have come about by chance? In this masterful piece of popular science, Richard Dawkins builds a powerful and carefully reasoned argument for evolutionary adaptation as the force behind all life on earth.'



Junk DNA: A Journey Through the Dark Matter of the Genome by Nessa Carey

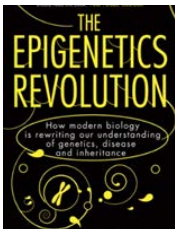
'For decades after the structure of DNA was identified, scientists focused purely on genes, the regions of the genome that contain codes for the production of proteins. Other regions – 98% of the human genome – were dismissed as 'junk'. But in recent years researchers have discovered that variations in this 'junk' DNA underlie many previously intractable diseases, and they can now generate new approaches to tackling them.'



Frankenstein's Cat

by Emily Anthes

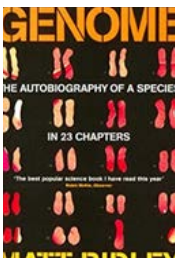
'From the petri dish to the pet shop, meet the high-tech menagerie of the near future, as humans reinvent the animal kingdom. Fluorescent fish that glow near pollution. Dolphins with prosthetic fins. Robot-armoured beetles that military handlers can send on spy missions. Beloved pet pigs resurrected from DNA.'



The Epigenetics Revolution

by Nessa Carey

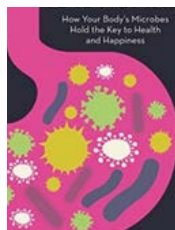
'Understanding of the way the genetic code is used to create the foetus and maintain the body has extended considerably over the past decades. The genes are now regarded more as a toolkit for producing proteins than a blueprint. This book examines the process by which the original strand of DNA in the single cell becomes modified to produce the specialised cells in different parts of the body.'



Genome: The Autobiography of a Species in 23 Chapters

by Matt Ridley

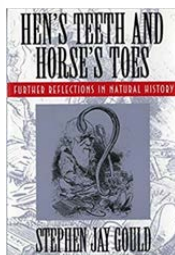
'The genome is our 100,000 or so genes. The genome is the collective recipe for the building and running of the human body. These 100,000 genes are sited across 23 pairs of chromosomes. Genome, a book of about 100,000 words, is divided into 23 chapters, a chapter for each chromosome. The first chromosome, for example, contains our oldest genes, genes which we have in common with plants.'



10% Human: How Your Body's Microbes Hold the Key to Health and Happiness

by Alanna Collen

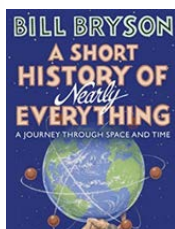
'Obesity, autism, mental health problems, IBS, allergies, auto-immunity, cancer. Does the answer to the modern epidemic of 'Western' diseases lie in our gut? You are 10% human. For every one of your cells, there are nine impostors hitching a ride. You are not just flesh and bone, but also bacteria and fungi. And you are more 'them' than you are 'you'.'



Hen's Teeth and Horse's Toes

by Stephen Jay Gould

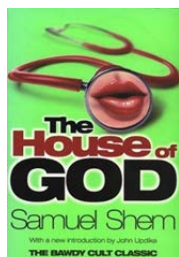
'Over a century after Darwin published the Origin of Species, Darwinian theory is in a "vibrantly healthy state," writes Stephen Jay Gould, its most engaging and illuminating exponent. Exploring the "peculiar and mysterious particulars of nature," Gould introduces the reader to some of the many and wonderful manifestations of evolutionary biology.'



A Short History of Nearly Everything by Bill Bryson

'A Short History of Nearly Everything is his quest to understand everything that has happened from the Big Bang to the rise of civilization - how we got from there, being nothing at all, to here, being us.'

For prospective medics



The House of God by Samuel Shem

“The hilarious novel of the healing arts that reveals everything your doctor never wanted you to know. Six eager interns -- they saw themselves as modern saviors-to-be. They came from the top of their medical school class to the bottom of the hospital staff to serve a year in the time-honored tradition, racing to answer the flash of on-duty call lights and nubile nurses. But only the Fat Man --the Clam, all-knowing resident -- could sustain them in their struggle to survive, to stay sane, to love-and even to be doctors when their harrowing year was done.”



This is Going to Hurt: Secret Diaries of a Junior Doctor by Adam Kay

“Scribbled in secret after endless days, sleepless nights and missed weekends, Adam Kay’s diaries provide a no-holds-barred account of his time on the NHS front line. Hilarious, horrifying and heartbreaking, this is everything you wanted to know – and more than a few things you didn’t – about life on and off the hospital ward.”

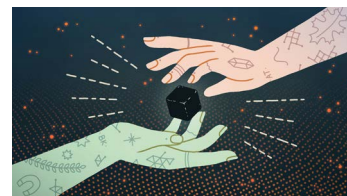
Science - Physics

Journal club:

<https://warwick.ac.uk/fac/sci/physics/outreach/journalclub>

To listen

- *Sean Carroll’s Mindscape*. This podcast, by Caltech theoretical physicist Sean Carroll, interviews guests from a wide range of backgrounds.
- *Physics World* do a weekly podcast, exploring the latest in physics news.
- *Talk Nerdy* is a podcast hosted by Cara Santa Maria that has weekly episodes on all aspects of science.
- In the *Titanium Physicists* podcast, they challenge their guests to make complex physics as understandable as possible.
- *Crowd Science* starts with a simple question each episode and explores all aspects of it with different guests.
- *What The If* explores the intersection of science-fact and science-fiction by exploring topics with scientists and sci-fi writers.
- *Brain’s On* is a podcast aimed at younger students.
- Cosmic shambles have podcasts on science and books (a lot of which are about science) that include comedians like Robin Ince and Josie Long (suggested by Duncan Brealey).
- Radio 4 have a huge variety of science-based podcasts including *The Curious Cases of Rutherford and Fry*, *The Life Scientific* and *The Infinite Monkey Cage* (suggested by Maxine Haddleton).
- *Shining a Diamond Light* is a podcast produced by the Diamond synchrotron that looks at the different roles within their facility (suggested by Chris Bloomer).



To read

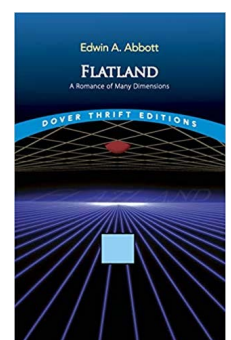
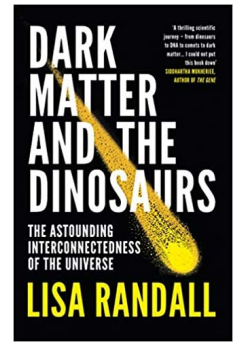
- *Quanta* magazine is a great website for easy-to-read physics news that remains at the cutting edge.

There are some great books you might be interested in:

- *What If* by Randall Munroe. The creator of XKCD has written a book where he answers ridiculous questions in a very scientific manner. Questions include “What would happen if you pitched a baseball at 90% of the speed of light?” which you can read for free here.
- Professor Povey’s *Perplexing Problems: Pre-University Physics and Maths Puzzles with Solutions* by Thomas Povey. The author, Thomas Povey, is Professor of Engineering Science at the University of

Oxford, where he researches jet-engine and rocket technology. His science puzzles have appeared in the Guardian and been featured on BBC Radio 4. You can read a lengthy sample of the book here.

- *A Big Bang in a Little Room: The Quest to Create New Universes* by Zeeya Merali. Zeeya Merali is a journalist and author who has written for Scientific American, Nature, New Scientist, and Discover, as well as published two textbooks in collaboration with National Geographic. In this book, Zeera gives a history of cosmology and the scientists behind the discoveries.
- *Goedel, Escher, Bach* by Douglas Hofstadter is available for free online. By exploring common themes in the lives and works of logician Kurt Gödel, artist M. C. Escher, and composer Johann Sebastian Bach, the book expounds concepts fundamental to mathematics, symmetry, and intelligence (suggested by SJ Spencer).
- *The Singular Universe and the Reality of Time: A Proposal in Natural Philosophy* by Roberto Mangabeira Unger, Lee Smolin. This books attempts to prove that time is real (suggested by SJ Spencer).
- *The End of Time: The Next Revolution in Physics* by Julian Barbour. This books attempts to prove that time is NOT real (suggested by SJ Spencer).
- *Seven Brief Lessons on Physics* by Carlo Rovelli. Carlo Rovelli is an Italian theoretical physicist looking at quantum gravity. In this book he explores the basic ideas of general relativity, quantum mechanics, elementary particles, gravity, black holes, the complex architecture of the universe, and the role humans play in this weird and wonderful world.
- *Six Easy Pieces* by Richard Feynman. The legendary Feynman explains the basics of atoms, basic physics, energy, gravitation, quantum mechanics, and the relationship of physics to other topics. QED: The strange theory of light and matter by Richard Feynman. Richard Feynman has a unique way of explaining concepts and this explanation of quantum electrodynamics is renowned for it's brilliance (suggested by Prof. Mark Dowsett). The Feynman lectures are all available online too (suggested by Ben Tatman). It should be noted that whilst Feynman is portrayed as a colourful character in physics, his conduct has also been called into question - particularly in relation to women.
- *The Disordered Cosmos: A Journey into Dark Matter, Spacetime, and Dreams Deferred* by Chanda Prescod-Weinstein. Dr. Chanda Prescod-Weinstein is a theoretical physicist and one of fewer than one hundred Black American women to earn a PhD from a department of physics. In this book she discusses aspects of cosmology alongside laying out a bold new approach to science and society to address issues of racism and sexism.
- *Hidden Figures* by Margot Lee Shetterly. The amazing story of NASA's African-American female mathematicians that worked tirelessly on the calculations behind the Apollo motions during the civil rights movement.
- *Lise Meitner: A Life In Physics* by Ruth Lewin Sime. If you enjoyed our look at Lise Meitner's life in Journal Club, you can read more about her life in this biography.
- *Storm in a Teacup: The Physics of Everyday Life* by Helen Czerski. Helen Czerski is a lecturer in the Mechanical Engineering Department at University College London. As a physicist she studies the bubbles underneath breaking waves in the open ocean to understand their effects on weather and climate.
- *Dark Matter and the Dinosaurs: The Astounding Interconnectedness of the Universe* by Lisa Randall. Lisa Randall is one of the world's leading theoretical physicists and the Frank B. Baird, Jr. Professor of Science at Harvard University. She has received numerous awards and honours and is a member of the National Academy of Sciences, the American Philosophical Society, the American Academy of Arts and Sciences, an Honorary Member of the Royal Irish Academy and an Honorary Fellow of the Institute of Physics. In this book she looks at the links between different aspects of science and posits that the world is more interconnected than it seems.
- *Shadows of the Mind: A Search for the Missing Science of Consciousness* by Roger Penrose. It's as good an introduction as any to computability theory and how we can translate questions of quantum ontology into questions solvable by Turing machines (or can we...) (suggested by SJ Spencer).
- *The Elegant Universe: Superstrings, Hidden Dimensions, and the Quest for the Ultimate Theory* by Brian Greene. Brian Greene is an American theoretical physicist and one of the best-known string theorists. He has been a professor of physics and



mathematics at Columbia University since 1996. He has become known to a wider audience through his books for the general public and a related PBS television special. In this book he explores the string theory interpretation of the universe and how this theory aims to provide a complete explanation of everything.

- *Mapping the Heavens The Radical Scientific Ideas That Reveal the Cosmos* by Priyamvada Natarajan. Priyamvada Natarajan is professor of astronomy and physics at Yale University and holds the Sophie and Tycho Brahe Professorship at the Dark Center, Niels Bohr Institute in Copenhagen, and an honorary professorship at the University of Delhi, India. This book is another look at the history of our understanding of the universe and also looks to the possible future discoveries.
- *Hello World: How to be Human in the Age of the Machine* by Hannah Fry. Hannah Fry is an Associate Professor in the mathematics of cities from University College London. In her day job she uses mathematical models to study patterns in human behaviour, and has worked with governments, police forces, health analysts and supermarkets. Her TED talks have amassed millions of views and she has fronted television documentaries for the BBC and PBS; she also hosts the long-running science podcast, 'The Curious Cases of Rutherford & Fry' with the BBC.
- *Measurement* by Paul Lockhart. Measurement It is a love letter to maths and is wonderful whether you are 10 years old or a Physics professor (suggested by Professor Gavin Morley).
- There are lots of books in the Very Short Introductions series that are about physics. These are pocket-sized books of about 100 pages written by leading experts on a very wide range of academic subjects (suggested by Professor Peter Wheatley).
- *The Art of the Infinite: The Pleasures of Mathematics* by Robert M. Kaplan, Ellen Kaplan. This book discusses the beauty of mathematics, looking at it's development over the history of humankind (suggested by Dr Jon Duffy).
- Softbites is a website that gives short summaries of research from the field of soft matter.
- You could also do a little research on how we got where we are today, which depends mostly on late 19th and early 20th Century discoveries but with an admixture of knowledge going back 8000 years. For example, find and read J J Thompson's paper on the discovery of the electron, Rutherford on the discovery of the atomic nucleus and so on. Even Euclid's formulation of geometrical optics including the law of reflection. All can be found free online. Suggested by Prof. MArk Dowsett.
- *Flatland* by Edwin Abbott. This work of fiction explores what life would be like if the universe was two dimensional (suggested by SJ Spencer).
- *Mr Tompkins in Paperback* by George Gamow, Roger Penrose. This fictional work explores a huge range of physics ideas (suggested by Dr Jon Duffy).
- *Alice in Quantumland: An Allegory of Quantum Physics* by Robert Gilmore. This is a work of fiction that explores what the consequences would be if the laws of quantum mechanics manifest obviously on the macroscopic scale (suggested by Dr Jon Duffy).
- Greg Egan is a fiction author whose works all have a strong physics theme - whether it's the orthogonal series which is set in a universe where space-time has positive-definite Riemannian metric, rather than a pseudo-Riemannian metric and it's all about the consequences of this, ie travelling 'orthogonal' to time and how light is always dispersive or whether it's quarantine looking at quantum ontology and is set in a world where some humans have evolved the ability to collapse wavefunctions consciously (suggested by SJ Spencer).

To watch

- *Apollo 11*. This documentary by Todd Douglas Miller, released on the fiftieth anniversary of Apollo 11, presents the events surrounding the mission using solely archival footage and still photographs associated with the mission. It includes never before seen footage and is a remarkable watch.
- Virtual tours of CERN. Take a look around the Large Hadron Collider (LHC) and its four detectors - they're all on Google Street View!
- *Cosmic shambles* has regular live streams of discussions and talks that involve science (suggested by Duncan Brealey).
- *Mind Your Decisions* by Presh Talwalkar is a YouTube channel that explores interesting maths problems with sources from all over the world (suggested by Jack Bradshaw).
- *Let There Be Light* is a documentary about the quest to create a net-positive fusion reactor on earth (one that outputs more energy than is input) (suggested by Jack Bradshaw).

- *3 Blue 1 Brown* is a YouTube channel that has some great explanations of the concepts in maths that would be useful to physics such as linear algebra, calculus and differential equations (suggested by Dr Tim Martin).
- *Numberphile* is another YouTube channel that looks at some interesting concepts in maths (suggested by Tom Jones).
- *Sixty Symbols* is a YouTube channel that looks at a wide range of physics concepts (suggested by Tom Jones).
- Khan academy have some great sections on physics, basic maths, algebra and differential equations which would all be useful to be refreshed on (suggested by Professor Sandra Chapman).
- You can also tour and explore ITER, which aims to be the first device to output more energy than is input through nuclear fusion (suggested by Amani Zalzali).
- There are some good physics-based Instagram accounts such as *physicsfun*, *daily_physics_*, *astroscience.ig*, and *physics_formula* (suggested by Charlie Slade)
- Von Karman Public Lectures by NASA Jet Propulsion Lab (suggested by Ben Tatman).
- The Diamond Light source has a vast array of resources from videos of the synchrotron to simulations that allow you to run your own synchrotron (suggested by Chris Bloomer).

To practise

If you're thinking of studying A Level physics you might want to look at:

- We produced these resources for the GCSE Space topic (click [here](#)). As you might not have studied it before the pandemic struck, it could be a good time to learn more about space by attempting the questions in the booklet and checking your answers in the presentation (along with video links and images).
- [Isaac Physics](#) has a wealth of content for all ages (suggested by Ben Tatman).
- [Math Centre](#) has a huge number of resources to practice any of the topics in mathematics, with lots of examples to help you out (suggested by Prof. Adrian Wilson).
- You could also look at the [Cambridge STEP papers](#) as a more advanced test of your current knowledge.

Science – Chemistry

- Experiments at home <https://www.3plearning.com/blog/simple-chemistry-experiments-kids-home/>
- 10 science competitions students can enter in 2020 <https://edu.rsc.org/feature/10-science-competitions-your-students-can-enter-in-2020/21/4012442.article>
- 100 Greatest Popular Science Books <https://oedb.org/librarian/100-all-time-greatest-popular-science-books/>
- Top 50 science documentaries
- <https://www.imdb.com/list/ls059688385/>

Sociology

Reading list

- Akala, *Natives*
- Diane Reay, *Miseducation*
- Sudhir Venkatesh, *Gang Leader for the Day*
- Stan Cohen, *Folk Devils and Moral Panics*
- Rodney Stark and William Bainbridge, *A Theory of Religion*
- Steve Bruce, *God is Dead: Secularisation in the West*
- Carol Smart, *Personal Life*
- Paul Willis, *Learning to labour*
- Karl Marx and Friedrich Engels, *The Communist Manifesto*

- George Ritzer, *The McDonaldization of Society*
- C. Wright Mills, *The Sociological Imagination*
- Zygmunt Bauman, *What use is Sociology?*
- Danny Dorling, *Inequality and the 1%*
- Owen Jones, *Chavs*
- Sudhir Venkatesh, *Floating city*
- James Patrick, *A Glasgow gang observed*
- Kate Fox, *Watching the English: The hidden rules of English behaviour*
- Angus Bancroft, *Dead white men and other important people*
- Stewart Lansley, *Breadline Britain*
- Ulrich Beck, *Risk Society*
- Ben Judah, *This is London*
- Ben Fincham, *Sociology of fun*
- Misha Glenny, *McMafia*
- Noah Yuval Harari, *Sapiens: A brief history of humankind*
- Darren McGarvey, *Poverty Safari*
- Afua Hirsch, *Brit(ish)*
- Erving Goffman, *Asylums*
- Caitlin Moran, *How to be a woman*
- Reno Eddo-Lodge, *Why I am no longer talking to white people about race*

Documentaries

- *Louis Theroux – The most Hated Family in America*. Available on Netflix. Focuses on the Westboro Baptist Church, infamous for their negative stance on homosexuality and their extreme tactics.
- *Jonestown: The life and death of Peoples Temple and Jonestown Massacre*. Available on Youtube. Tells the story of American religious group “Peoples Temple” and the terrible influence it had over its members’ lives.
- *Heavens Gate cult – Inside story*. Available on YouTube. Important note – not a cult, despite the name of the documentary! Another good example of a different type of religious organisation and the control it can exert over people.
- *Richard Dawkins – Enemies of reason part 1*. Available on Youtube. Examines some explanations of secularisation as well as New Age religion.
- *BBC Panorama - The Secrets of Scientology*. Available on Youtube. A documentary which allows you to evaluate its classification. Is it a cult or sect? Does it fit neatly in to the typology or are there problems?
- *New Muslim Cool*. A documentary that focuses on life in the USA as a Muslim following 9/11. Good for considering religious diversity, ‘clash of civilisations’, cultural transition and cultural defence.
- *Jesus Camp*. A documentary that focuses on a controversial summer camp for Christian children, highlighting the difference in how some groups choose to worship the same God.
- *Bowling for Columbine* - A documentary by Michael Moore, focusing on school shootings in the US. This documentary allows you to consider the causes of these incidents, as well as the media’s role in reporting them.
- *Louis Theroux – numerous documentaries good for considering the various perspectives on crime and deviance: Louis and the Nazis, Behind bars, Law and Disorder in Philadelphia, Johannesburg, and Lago, The city addicted to Crystal Meth, Miami Mega Jail,*
- *The House I Live in* – An excellent documentary, examining the “war on drugs” in the United States. In particular it shows how this war on drugs is also a war on class – very good for examining the Marxist view of crime.
- *The Farm: Life in Angola Prison* – Depicts the day-to-day life in Angola Prison in the US, considering the purpose of the prison system.
- *Ghosts of Rwanda* – Focuses on the genocide in Rwanda. Good for thinking about the social construction of crime – can something be a crime if those who carry out are those who decide the definition of crime?
- *Capitalism: A love story* – Considers the crimes of the rich against the crimes of the poor. Are the

working class really more likely to commit crime? How does the structure of society lead people in to these situations.

- *The Smartest Guys in the Room* – A good documentary focusing on corporate crime, specifically Enron. Works as an alternate take on Merton's Strain Theory as well as considering the Marxist view.
- *13th* – A documentary examining how mass incarceration in the United States may have its origins in the 13th Amendment (abolition of slavery)

