

READ, WATCH, DO.

Universities and employers look for more than just results. They also want to see students who are genuinely interested in the subject area and who can manage their time to go beyond what they study in the classroom. To help you with that, this booklet has ideas for super-curricular enrichment activities for subjects and careers across college. These are designed that you can do these from home and even under the current restrictions.

ART AND DESIGN

✓ READ

What do Art admissions tutors look for? https://web.ucas.com/ps_art

What do Photography admissions tutors look for? https://web.ucas.com/ps_photography

Colossal magazine: an international platform for contemporary art and visual expression that explores a vast range of creative disciplines. With an archive of over 6,700 articles written by seven contributors, we pride ourselves in celebrating the work of both emerging and established artists through an ongoing commitment to make art accessible to everyone. Our coverage explores visual culture through the latest in fine art, design, modern craft, street art, photography, illustration, science, and animation:
<https://www.thisiscolossal.com/>

Design Week magazine: the UK's leading online design magazine. Bringing you the latest news and inspiration across graphics, branding, interiors, digital, product, furniture and more: <https://www.designweek.co.uk/>

John Berger, Ways of Seeing: one of the most stimulating and influential books on art in any language. First published in 1972, it was based on the BBC television series about which the Sunday Times critic commented: "this is an eye-opener in more ways than one: by concentrating on how we look at paintings . . . he will almost certainly change the way you look at pictures."

✓ WATCH

Abstract: step inside the minds of the most innovative designers in a variety of disciplines and learn how design impacts every aspect of life:
<https://www.netflix.com/gb/title/80057883>

Photo London: many talks from photographers such as Joel Meyerowitz, Don McCullin and Tim Walker. You will need to be registered and logged in to view the talks but this is free:
<https://photolondon.org/academy/talks/>

✓ DO

Isolation Art School: projects, lessons and tips by artists to help people get creative while housebound during Covid19 crisis: <https://www.instagram.com/isolationartschool/>

Mango Street: photography and filmmaking tutorials that don't waste your time:
<https://www.youtube.com/c/MangoStreet/videos>

Gallery visits: many local galleries are now open for visitors, including Impressions Gallery, Salts Mill, Yorkshire Sculpture Park and Leeds Galleries.

BIOLOGY AND MEDICINE

✓ READ

What do Biology admissions tutors look for? https://web.ucas.com/ps_biology

What do Medicine admissions tutors look for? https://web.ucas.com/ps_medicine

What do Veterinary Science admissions tutors look for? https://web.ucas.com/ps_veterinary

New Scientist magazine: New Scientist is the world's most popular weekly science and technology magazine: <https://www.newscientist.com>

British Medical Journal: the BMJ is defined by its mission: to work towards a healthier world for all. We share that global endeavour with millions of readers working in clinical practice, research, education, government, and with patients and the public too.

<http://www.bmj.com>

Nature: Nature is a weekly international journal publishing the finest peer-reviewed research in all fields of science and technology: <http://nature.com>

✓ WATCH

The fight against viruses: in this series of TED talks, a range of speakers look at how best to tackle viruses and the pandemic:

https://www.ted.com/playlists/735/the_fight_against_viruses

✓ DO

I'm A Scientist, Get me Out of Here: I'm a Scientist, Get Me Out Of Here puts school students in direct contact with real scientists. It's a flexible online activity, running from September through December. Students can: read profiles of scientists in different careers, chat with real scientists in real time, ask their questions, vote for their favourite scientist to win £500: <https://imascientist.org.uk/autumn-2020/>

Understanding Medical Research: Your Facebook Friend is Wrong: this free online course run by Yale in the United States, will provide you with the tools and skills you need to critically interpret medical studies, and determine for yourself the difference between good and bad science: <https://www.coursera.org/learn/medical-research>

Virtual work experience: virtual work experience for dentistry, Medicine, eye health care, physiotherapy, veterinary and paramedics:

<https://sites.google.com/view/virtualworkexperience/home>

BUSINESS AND ACCOUNTING

✓ READ

What do Business admissions tutors look for? https://web.ucas.com/ps_business

What do Finance and Accounting admissions tutors look for?
https://web.ucas.com/ps_finance_accounting

What do Marketing admissions tutors look for? https://web.ucas.com/ps_marketing

John Brooks, Business Adventures: Bill Gates asked Warren Buffet what his favourite book was. Warren Buffet suggested 'Business Adventures'; a book he read at a young age. After Bill Gates read the book, he described the author as "my favourite business writer" and the publication as the "best business book I've ever read". This book engages with the reader and gives an insightful look into the corporate and financial life in America and improves the understanding intricacies of corporate life with a load of drama and adventure!

Rachel Bridge, My Big Idea: in this book, Rachel takes a step back to consider what is behind the good business ideas that are converted into successful businesses. Easy reading with strong, relevant insights.

✓ WATCH

Interviews with a business mogul: in this series of TED talks, gain insights, wisdom and advice from visionaries at the top of their fields and industries:
https://www.ted.com/playlists/696/interview_with_a_business_mogul

✓ DO

LEAP: LEAP is a registered charity that enables students to set up their own companies for a school year, learning business skills, teamwork and problem solving, and gaining confidence and 'employability' skills: <https://www.leapenterprise.co.uk/>

BASE competition: BASE is ICAEW's free national business and accounting competition for 16-17 year olds across the UK. An exciting experience where students take part in team challenges; giving them an understanding of what it's like to be an ICAEW Chartered Accountant whilst developing their key employability skills:
<https://careers.icaew.com/campaigns/base-competition>

Virtual work experience with Barclays: <https://barclayslifeskills.com/i-want-virtual-work-experience/school/virtual-work-experience>

CHEMISTRY

✓ READ

What do Chemistry admissions tutors look for? https://web.ucas.com/ps_chemistry

What do Pharmacy admissions tutors look for? https://web.ucas.com/ps_pharmacy

New Scientist magazine: New Scientist is the world's most popular weekly science and technology magazine. Its website, app and print editions cover international news from a scientific standpoint, and ask the biggest-picture questions about life, the universe and what it means to be human. If someone in the world has a good idea, you'll read about it in New Scientist:

<https://www.newscientist.com>

Chemistry World: Chemistry World is the flagship magazine of the Royal Society of Chemistry. Published in print and online, they provide a global chemical science community with the research, news and views they need to keep informed on the breakthroughs, challenges and emerging trends happening worldwide. You can also sign up to webinars and listen to podcasts: <https://www.chemistryworld.com/>

✓ WATCH

How I Claimed A Seat At The Periodic Table: In this personal talk, nuclear chemist Clarice Phelps, the first African-American woman involved in the discovery of a chemical element, debunks the myth of solitary genius and challenges institutional elitism by sharing stories of women of colour making their way in science:

https://www.ted.com/talks/clarice_phelps_how_i_claimed_a_seat_at_the_periodic_table

✓ DO

I'm A Scientist, Get me Out of Here: I'm a Scientist, Get Me Out Of Here puts school students in direct contact with real scientists. It's a flexible online activity, running from September through December. Students can: read profiles of scientists in different careers, chat with real scientists in real time, ask their questions, vote for their favourite scientist to win £500: <https://imascientist.org.uk/autumn-2020/>

The Open Science Laboratory: this online laboratory brings interactive practical science to students anywhere and anytime the internet is available. The laboratory features investigations based on on-screen instruments, remote access experiments and virtual scenarios using real data. Several activities are available to all, while others are available only to registered users: <https://learn5.open.ac.uk/course/view.php?id=2>

CRIMINOLOGY

✓ READ

Maguire, Morgan and Reimer, The Oxford Handbook of Criminology: this is the most comprehensive and authoritative single volume guide to the subject; combining masterly reviews of all the key topics with extensive bibliographical references to aid further research. In addition to the history of the discipline and reviews of the contributions to criminology of different theoretical perspectives, this book provides up-to-date reviews of such diverse topics as crime statistics, policing, the criminal justice process, race and gender, drugs and the media and crime.

✓ WATCH

The surprising connection between brain injury and crime: in this TED talk, neuropsychologist Kim Gorgens shares her research into the connection between brain trauma and the behaviours that keep people in the revolving door of criminal justice -- and some ways to make the system more effective and safer for everyone:

https://www.ted.com/talks/kim_gorgens_the_surprising_connection_between_brain_injuries_and_crime

✓ DO

From Crime to Punishment: an Introduction to Criminal Justice: What is crime? How does criminal justice work in England and Wales? Find out more by following a case through the system, in this free online course from the University of York:

<https://www.futurelearn.com/courses/crime-to-punishment>

ECONOMICS

✓ READ

What do Economics admissions tutors look for? https://web.ucas.com/ps_economics

Dear Economist: Tim Harford's engaging and light-hearted take on some very serious economic issues. Tim also has a podcast and a series of excellent books that are full of everyday applications of economic theory: <https://timharford.com/articles/deareconomist/>

Larry Elliott, The Guardian: The Guardian newspaper's Economics editor writes excellent articles and editorials on current economic affairs. These will examine economic issues from different sides of the argument, and will link them to the underlying economic principles that are often forgotten or ignored in most economic journalism: <https://www.theguardian.com/profile/larryelliott>

✓ WATCH

How to change your behaviour for the better: Dan Ariely, a lecturer in Behavioural Economics at Duke University, is famous for work on the new field of Behavioural Economics, and this Ted Talks illustrates some of his key ideas in a series of funny stories: https://www.ted.com/talks/dan_ariely_how_to_change_your_behavior_for_the_better?language=en

MRU: a series of short and easy to understand videos that cover the topics on the Economic course: <https://mru.org/>

60 Second Adventures in Economics: very short and concise summaries of some economics topics from the Open University: <https://www.youtube.com/watch?v=LCRN104tnN8>

✓ DO

Rethinking Economics: Rethinking Economics is an international network of students and citizens, working together to demystify, diversify, and invigorate economics in our classrooms and society. So if you want to change economics, you're in the right place! <http://www.rethinkeconomics.org/get-involved/>

Virtual work experience with Barclays: <https://barclayslifefskills.com/i-want-virtual-work-experience/school/virtual-work-experience>

ENGINEERING

✓ READ

What do Engineering admissions tutors look for? https://web.ucas.com/ps_engineering

Eureka magazine: for more than three decades, Eureka has been the magazine of choice for design engineers. By reporting on the latest technology, innovations and engineering applications, it seeks to inspire engineers to make their designs more efficient, cost-effective and commercially successful. Running the gamut of engineering applications, Eureka includes special features on the aerospace, renewable energy, medical and automotive sectors, as well as covering all the technology areas relevant to the modern design engineer: <http://www.eurekamagazine.co.uk/design-engineering-magazine/>

Interesting Engineering: founded on the core mission of connecting likeminded engineers around the globe, Interesting Engineering is now a leading community with more than 15 million+ minds. Every day they share a new idea, a new thought, an upcoming technology OR an engineering breakthrough that will change the way you think about technology and engineering in today's world and in the near future: <https://interestingengineering.com/>

✓ WATCH

How it's Made: short YouTube videos about how different everyday items are made: <https://www.youtube.com/channel/UCElt4nocnWDEnYJmov4zqyA>

How We Got To Now: join best-selling author Steven Johnson to discover extraordinary stories behind six remarkable ideas that made modern life possible, the unsung heroes who brought them about and the unexpected and bizarre consequences each of these innovations triggered. Explore the history and power of these great ideas: <https://www.youtube.com/playlist?list=EL25E39MBepNaBVHM02V5foQ>

✓ DO

Engineering The Future: Creating The Amazing: in this free online course from the University of York, learn more about the fascinating world of engineering, and discover where an engineering degree could take you: <https://www.futurelearn.com/courses/creating-the-amazing-engineering-the-future>

ENGLISH LANGUAGE

✓ READ

What do English admissions tutors look for? https://web.ucas.com/ps_english

Susie Dent, Modern Tribes: The Secret Language of Britain: "Ever wondered why football managers all speak the same way, what a cabbie calls the Houses of Parliament? We are surrounded by hundreds of tribes, each speaking their own distinct slanguage of colourful words, jokes and phrases."

David Crystal, The Stories of English: "This superbly well-informed - and also wonderfully entertaining - history of the English language answers all these questions, showing how the many strands of English (Standard English, dialect and slang among them) developed to create the richly-varied language of today."

David Crystal, How Language Works: "David Crystal answers every question you might ever have had about the nuts and bolts of language in his usual highly illuminating way."

Linguistics Research Digest: a blog by Sue Fox and Jenny Cheshire at Queen Mary University covering latest linguistics research: <http://linguistics-research-digest.blogspot.com/>

EngLangBlog: a blog for a-level English Language students and their teachers: <https://englishlangsfx.blogspot.com/>

✓ WATCH

What Is The Future of Language?: English works in the wider world and is one of a number of international languages: <https://www.youtube.com/watch?v=rUU8pLEk6nk>

David Crystal, The Effects of New Technology on English: in this TED Talk from leading English language professor, David Crystal, he discusses how the English language acts differently when it goes online: <https://www.youtube.com/watch?v=qVqcoB798Is>

✓ DO

Writing competitions: think about developing your skills as a writer by entering writing competitions- both in non-fiction and fiction categories. There are a number of annual competitions mentioned in this article, so have a look and see if any of them appeal to you in particular: <https://www.walterscottprize.co.uk/best-competitions-young-writers-enter/>

Twist in the Tale competition: this writing competition is run by the Pearson exam board, focusing on the theme of "everyday heroes": <https://www.pearson.com/uk/educators/schools/subject-area/literacy-and-english/EngagingReadersandInspiringWriters/my-twist-on-a-tale-competition.html>

ENGLISH LITERATURE

✓ READ

What do English admissions tutors look for? https://web.ucas.com/ps_english

Terry Eagleton, *The English Novel: An Introduction*: if you're interested in the history of the novel and how this form has developed in English literature, this is an engagingly written and frequently very witty introduction to the English novel, from Defoe to James Joyce.

✓ WATCH

Joseph Luzzi, *How Literature Can Change Your Life*: "My aim is to show that literature is not just an elitist collection of "classics, something you are "supposed" to read or have to study in school, but which are difficult, remote, and otherwise disconnected from everyday life. Rather, I will propose that audience members can and should make literature a part of their everyday. I will go even further and say that, when you are facing extraordinary difficulties and challenges, literature can save your life.":

https://www.ted.com/talks/joseph_luzzi_how_literature_can_change_your_life

✓ DO

EdX: Enrol onto an online course from universities around the world, including Harvard and Berkley and MIT. Pick from a range of free courses that last between 4 – 10 weeks and will require about 3-4 hours a week of study. When completed you'll be able to say that you have studied at one of the best universities in the world:

<https://www.edx.org/course/subject/literature>

Writing competitions: think about developing your skills as a writer by entering writing competitions- both in non-fiction and fiction categories. There are a number of annual competitions mentioned in this article, so have a look and see if any of them appeal to you in particular: <https://www.walterscottprize.co.uk/best-competitions-young-writers-enter/>

Twist in the Tale competition: this writing competition is run by the Pearson exam board, focusing on the theme of "everyday heroes":

<https://www.pearson.com/uk/educators/schools/subject-area/literacy-and-english/EngagingReadersandInspiringWriters/my-twist-on-a-tale-competition.html>

FILM

✓ READ

Sight and Sound magazine: published by the British Film Institute since 1932, Sight and Sound is the magazine that offers a unique insight into the very best of film culture. Sight and Sound brings cinema history to life with extensive coverage of cinema past, present and future, from all corners of the globe. Each issue provides detailed reviews of all films released theatrically in the UK, exclusive news and interviews with the biggest directors, in-depth features, festival news, the latest DVD releases and comprehensive film reviews. Sight and Sound magazine casts off the gossip and hype of the many film magazines in the market with writing from Mark Kermode, Kim Newman and Tony Rayns among a host of film experts.

✓ WATCH

The Story of Film: film critic and historian Mark Cousins uses film clips, interviews with filmmakers, and illustrative footage of locations around the world to take viewers through film and filmmaking history, from the late 19th century to today, with a particular emphasis on world cinema ranging from Japan, China, Nigeria, USA and the UK. There are numerous interviews with directors and actors from across the globe. Available via BFI.

✓ DO

Reel Solutions: as part of the Department for Education, National Lottery and BFI funded programme, you'll be able to gain hands on experience here in Bradford through workshops, meeting working professionals giving advice and on the job training:

<http://www.reelsolutions.co.uk/index.php/bfi-film-academy/bfi-film-academy-bradford/>

Explore Film-making: From Script To Screen: on this free online course from the National Film and Television School and BFI, learn from award-winning filmmakers how films go from script to screen:

<https://www.futurelearn.com/courses/explore-filmmaking>

FRENCH

✓ READ

What do Languages admissions tutors look for?

https://web.ucas.com/ps_modern_languages

The News in Slow: www.newsinslowfrench.com

French newspapers and magazines: search for Le Monde, Le Figaro, Libération, Le Parisien, L'Équipe, La Recherche, Science et Vie, Les Inrockuptibles, Paris Match.

French Twitter accounts: sign up to Twitter in French for authentic text that you can quickly flick through: @FrenchLanguage – a French word a day, @TalkinFrench – a French word and a French expression a day, @ParleFrançais – language learning support, @Frenchmot – another word a day feed, @TwitterFrance – official account of France, @franceinfo – radio station account, @FRANCE24 – regular news, @lemondefr – world news, @French_LKL – lots of French learning practice, @bernardpivot1 – reflections on the French language most mornings, @décodeurs – facts and statistics about French society.

✓ WATCH

French TV: www.france24.com - Euronews is a European TV channel on which you can watch programs about news, culture, technology and many other interesting topics. The language is pretty formal, but each video comes with a transcript you can download, which makes Euronews one of the very best French TV channels to improve your French, www.france24.com - this a TV channel specifically created for people living outside of France. Its mission is to cover world news from a French perspective, www.tf1.fr - TF1 is one of the main French TV channels and offers a broad varieties of popular French and American TV shows such as Arrow, Grey's Anatomy and The Mentalist, www.6play.fr - M6 is another popular TV channel. It broadcasts news, shows and series such as the hilarious French series Kaamelott.

✓ DO

Advanced French: At the science museum in Paris: in this free online course from the Open University, you will use the topic of science and technology in France, to look at how to structure arguments: <https://www.open.edu/openlearn/languages/french/advanced-french-the-science-museum-paris/content-section-0?active-tab=description-tab>

GAMES DESIGN

✓ READ

Scott Rogers, Level Up! The Guide to Great Video Game Design: this covers all aspects of game design, from initial idea generation all the way to postproduction and promotion. So, you'll get an idea of what the entire process is like and if it's for you. A lot of information will be thrown at you in this process. But Scott, the author, still manages to write in a way that is accessible and fun. Additionally, many textbooks can sometimes be heavy on the theory side of game design. However, early in your design career, you'll learn more by doing, so Level Up offers loads of tasks and challenges for you to complete.

✓ WATCH

Double Fine Adventure: an insight into the gaming industry and job roles within, as the documentary follows the path of a Games Design company starting a Kickstarter campaign to the delivery (or not) of an interactive game that was planned to change the gaming as we know it: <https://www.youtube.com/watch?v=zVwg-9WL3dE>

Gaming can make a better world: Games like World of Warcraft give players the means to save worlds, and incentive to learn the habits of heroes. What if we could harness this gamer power to solve real-world problems? In this TED talk, Jane McGonigal says we can, and explains how:

https://www.ted.com/talks/jane_mcgonigal_gaming_can_make_a_better_world

✓ DO

How to Start Your Career In Games Development: a free online course from National Videogame Museum, BGI and Future Learn, learn how to start a career in games development by hearing from leading games producers, recruiters, and new developers: <https://www.futurelearn.com/courses/how-to-start-your-career-in-games-development>

Introduction to Indie Games: a free online course from the University of the Arts and Future Learn, explore the thriving independent video games industry, and develop the skills to kick start your career in the sector: <https://www.futurelearn.com/courses/introduction-to-indie-games>

GEOGRAPHY

✓ READ

What do Geography admissions tutors look for? https://web.ucas.com/ps_geography

Tim Marshall, Prisoners of Geography: Ten Maps That Tell You Everything You Need To Know About Global Politics: if you've ever wondered why Putin is so obsessed with Crimea, why the USA was destined to become a global superpower, or why China's power base continues to expand ever outwards, the answers are all here. In ten chapters (covering Russia; China; the USA; Latin America; the Middle East; Africa; India and Pakistan; Europe; Japan and Korea; and the Arctic), using maps, essays and occasionally the personal experiences of the widely travelled author, Prisoners of Geography looks at the past, present and future to offer an essential insight into one of the major factors that determines world history.

✓ WATCH

How megacities are changing the map of the world: "I want you to reimagine how life is organized on earth," says global strategist Parag Khanna. As our expanding cities grow ever more connected through transportation, energy and communications networks, we evolve from geography to what he calls "connectography." This emerging global network civilization holds the promise of reducing pollution and inequality -- and even overcoming geopolitical rivalries. In this talk, Khanna asks us to embrace a new maxim for the future: "Connectivity is destiny.": https://www.ted.com/talks/parag_khanna_how_megacities_are_changing_the_map_of_the_world

✓ DO

Concepts in Sustainable Development: An Introduction to the Key Issues: in this free online course run by the University of Leicester, explore some of the key issues in sustainability, tackling the big questions with examples from around the world: <https://www.futurelearn.com/courses/sustainability>

HEALTH AND SOCIAL CARE

✓ READ

What do Nursing admissions tutors look for? https://web.ucas.com/ps_nursing

What do Midwifery admissions tutors look for? https://web.ucas.com/ps_midwifery

What do Social Work admissions tutors look for? https://web.ucas.com/ps_social_work

Donna Cardillo, *Your First Year as a Nurse*: Welcome to the compassionate and caring world of nursing! You are entering a profession that offers great rewards and endless opportunities. But you must prepare for the challenges ahead and do everything you can to ensure that you experience the best that nursing has to offer.

✓ WATCH

Royal College of Nursing webinars: join one of our webinars to find out more about the services and resources we provide to support your studies. And why you should be part of the UK's largest union and professional body for nursing:

<https://www.rcn.org.uk/membership/student-join/student%20webinars>

Health Plus Care Webinar Series: join our panels of experts in conversation during these free, live webinar or re-watch the recordings: <https://www.healthpluscare.co.uk/hc-webinar>

Learn With Nurses: Learn With Nurses is free webinar based training for all health care professionals, by nurses: <https://smarthealthsolutions.co.uk/taster-webinars/>

British Association of Social Workers virtual 50th anniversary festival: catch up on the recordings and join in a number of one hour online 'stages' to celebrate 50 years of the association and the future of social work: <https://www.basw.co.uk/basw-50th-anniversary-virtual-festival-0>

✓ DO

Virtual work experience for nursing: https://drive.google.com/file/d/1hYekay-52F-7EUyah242p9ZjuXYLT_a/view

Virtual work experience for social work:

<https://drive.google.com/file/d/1jljmuV2JNZgNLU4NnWNAf3wpNuUYZzjO/view>

Virtual work experience for midwifery:

https://drive.google.com/file/d/1cnMnuSN2hXCqbm47v4dU_5myt3wvy3ZF/view

Virtual work experience for allied health professionals:

<https://drive.google.com/file/d/1HQh13W7BCy5v88Jt1eMbryeNPvN7c2IH/view>

HISTORY

✓ READ

What do History admissions tutors look for? https://web.ucas.com/ps_history

Jack Weatherford, Genghis Khan and the Making of the Modern World: in nearly every country the Mongols conquered, they brought an unprecedented rise in cultural communication, expanded trade, and a blossoming of civilization. Vastly more progressive than his European or Asian counterparts, Genghis Khan abolished torture, granted universal religious freedom, and smashed feudal systems of aristocratic privilege.

✓ WATCH

2600 years of history in one object: a clay cylinder covered in Akkadian cuneiform script, damaged and broken, the Cyrus Cylinder is a powerful symbol of religious tolerance and multi-culturalism. In this TED talk, Neil MacGregor, Director of the British Museum, traces 2600 years of Middle Eastern history through this single object:

https://www.ted.com/talks/neil_macgregor_2600_years_of_history_in_one_object

✓ DO

Future learn: sign up for one of the free, online courses run by leading universities on a range of historical topics, including slavery, Rome, Japan, World War I, The Tudors and Waterloo: <https://www.futurelearn.com/subjects/history-courses>

IT AND COMPUTING

✓ **READ**

What do Computer Science admissions tutors look for?

https://web.ucas.com/ps_computer_science

Kevin Kelly, The Inevitable: Understanding the 12 Technological Forces That Will Shape Our Future: from one of our leading technology thinkers and writers, a guide through the twelve technological imperatives that will shape the next thirty years and transform our lives.

✓ **WATCH**

What AI is and what AI isn't: educator and entrepreneur Sebastian Thrun wants us to use AI to free humanity of repetitive work and unleash our creativity. In an inspiring, informative conversation with TED Curator Chris Anderson, Thrun discusses the progress of deep learning, why we shouldn't fear runaway AI and how society will be better off if dull, tedious work is done with the help of machines. "Only one percent of interesting things have been invented yet," Thrun says. "I believe all of us are insanely creative ... [AI] will empower us to turn creativity into action."

https://www.ted.com/talks/sebastian_thrun_and_chris_anderson_what_ai_is_and_isn_t

✓ **DO**

Future Learn: sign up for one of the free, online short courses about a range of IT and Computing, delivered by many leading universities and employers:

<https://www.futurelearn.com/subjects/it-and-computer-science-courses>

LAW

✓ READ

What do Law admissions tutors look for? https://web.ucas.com/ps_law

Tom Bingham, The Rule of Law: a classic discussion about the importance of the “rule of law”, the way the legal system should operate in a democracy, including through equality, fair trials and how those in power shop operate. You can read a free online version here: https://archive.org/details/tom_bingham_the_rule_of_law/page/n1/mode/2up

✓ WATCH

The Case for Cannibalism: blurb Professor Michael Sandel’s “Justice” course that he teaches at Harvard is available to watch online. The lecture about “The Case for Cannibalism” examines the moral questions with the law of necessity, especially around the case of Dudley v Stephens: <http://justiceharvard.org/lecture-2-the-case-for-cannibalism/>

✓ DO

Amnesty International: there are lots of ways you can get involved with for Amnesty International, campaigning to tackle human rights abuses across the world. In particular, their Pocket Protest group (<https://www.amnesty.org.uk/issues/pocket-protest>) and email campaigns (<https://www.amnesty.org.uk/actions>) are ways of campaigning from home, about specific causes which interest you.

<https://www.amnesty.org.uk/get-involved>

Virtual work experience with White & Case solicitors firm: carry out free, virtual work experience with this large international solicitors firm: <https://www.theforage.com/virtual-internships/prototype/HECBn5zqCvBpAXitG/White-%26-Case-UK-Programme>

MATHS

✓ READ

What do Maths admissions tutors look for? https://web.ucas.com/ps_maths

What do Statistics admissions tutors look for? https://web.ucas.com/ps_statistics

Ian Stewart, 17 Equations That Changed The World: from Newton's Law of Gravity to the Black-Scholes model used by bankers to predict the markets, equations, are everywhere - and they are fundamental to everyday life. This book examines seventeen ground-breaking equations that have altered the course of human history.

✓ WATCH

Symmetry, reality's riddle: the world turns on symmetry – from the spin of subatomic particles to the dizzying beauty of an arabesque. But there's more to it than meets the eye. In this TED Talk, Oxford mathematician Marcus du Sautoy offers a glimpse of the invisible numbers that marry all symmetrical objects:

https://www.ted.com/talks/marcus_du_sautoy_symmetry_reality_s_riddle

The Infinite Hotel Paradox: Jeff Dekofsky explains the concept of infinity:

https://www.youtube.com/watch?v=Uj3_Kqkl9Zo

✓ DO

Maths Puzzles: Cryptarithms, Symbologies and Secret Codes: in this free online course, run by Weizmann Institute of Science, discover maths puzzles, explore their history and practise problem-solving techniques. You'll explore: cryptarithms - puzzles where the digits have been replaced by letters; symbologies - puzzles where numbers are represented by symbols; mathematical operator puzzles - puzzles where the numbers are given, but the mathematical operator is missing (for example, what does the asterisk stand for in $*1320=6?$): <https://www.futurelearn.com/courses/maths-puzzles>

UK Mathematics Trust: have a go at past activities from the Senior Mathematical Challenge: <https://www.ukmt.org.uk/competitions/solo/senior-mathematical-challenge/archive>

MEDIA

✓ READ

What do Media admissions tutors look for? https://web.ucas.com/ps_media

Des Freedman, The Contradictions of Media Power: How the Media is portrayed, how you expect it to unfold and represent society can often not be the whole truth. This book goes some way to explain the power the media has but also the power it 'thinks' it has but through stories and examples we find a very different reality.

✓ WATCH

The Social Dilemma: This will provide you with an insight into the power of social media, the data harvesting of organisations and an all-round view of the power of media in today's society. This documentary explored the dangerous human impact of social networking, he the experts sounding the alarm of their own creation:

<https://www.netflix.com/gb/title/81254224>

✓ DO

Reel Solutions: as part of the Department for Education, National Lottery and BFI funded programme, you'll be able to gain hands on experience here in Bradford through workshops, meeting working professionals giving advice and on the job training:

<http://www.reelsolutions.co.uk/index.php/bfi-film-academy/bfi-film-academy-bradford/>

The Business of Film: an Open Learn course from the Open University, this provides a practical, in-depth exploration of how film financing works, and the key business decisions that are made along the way: <https://www.open.edu/openlearn/history-the-arts/the-business-film/content-section-overview?active-tab=description-tab>

Understanding Media: The Celebrity in the Text: this Open Learn course will teach you how to analyse media texts and look at celebrity in a new light:

<https://www.open.edu/openlearn/people-politics-law/politics-policy-people/sociology/understanding-media-the-celebrity-the-text/content-section-0?active-tab=description-tab>

PHYSICS

✓ READ

What do Physics admissions tutors look for? https://web.ucas.com/ps_physics

Robert Gilmore, *Alice in Quantumland: An Allegory of Quantum Physics*: my favourite physics book for A-level students. Fundamental concepts are introduced by Gilmore from which to build with calculations.

Carlo Rovelli, *Seven Brief Lessons on Physics*: Rovelli (and his interpreter) are excellent and engaging writers. It doesn't aim to give you all of the answers but poses excellent questions.

✓ WATCH

There are lots of fascinating short videos on Physics available. Here are some of the best:

[What Happens If We Bring the Sun to Earth?](#) (Kurzgesagt)

[Coffee Mechanics](#) (Sixty Symbols)

[Impossible Muons](#) (Minute Physics)

[Black Holes Explained – From Birth to Death](#) (Kurzgesagt)

[Footnote: Double Pendulums Are Crazy](#) (Minute Physics)

[Transistors & The End of Moore's Law](#) (Veritasium)

✓ DO

Quantum mechanics for everyone: in this free online course, run by Georgetown University in the United States, learn the fundamental notions of quantum mechanics at a level that is accessible to everyone. This course is listed as one of the best online courses of all time by Class Central and was a finalist for the 2018 edX Prize for Exceptional Contributions to Online Teaching and Learning: <https://www.edx.org/course/quantum-mechanics-for-everyone>

Nuffield research placements: Nuffield Research Placements give young people from disadvantaged backgrounds the opportunity to gain STEM skills and confidence by undertaking active research projects in their summer holidays:

<https://www.nuffieldfoundation.org/students-teachers/nuffield-research-placements>

POLITICS

✓ READ

What do Politics admissions tutors look for? https://web.ucas.com/ps_politics

Andrew Rawnsley, The End of the Party: the most authoritative and detailed account of the tempestuous relationship between Tony Blair and Gordon Brown, starting in 2001 and ending in the run-up to the 2010 election. The reader is shown the first-hand responses of Blair, Brown and their inner circles to major historical events, like 9/11, the Iraq war and the death of David Kelly.

✓ WATCH

The lost art of democratic debate: Democracy thrives on civil debate, Harvard Professor Michael Sandel says, but we're shamefully out of practice. He leads a fun refresher, with TEDsters sparring over a recent US Supreme Court case (PGA Tour Inc. v. Martin) whose outcome reveals the critical ingredient in justice:

https://www.ted.com/talks/michael_sandel_the_lost_art_of_democratic_debate

✓ DO

Propaganda and Ideology in Everyday Life: in this free online course, organised by the University of Nottingham and the British Library, find out how propaganda is used to instil political ideologies and its impact on our daily lives:

<https://www.futurelearn.com/courses/propaganda>

PSYCHOLOGY

✓ READ

What do Psychology admissions tutors look for? https://web.ucas.com/ps_psychology

The Psychologist: A monthly publication of The British Psychological Society has back issues freely available on its archive at <http://www.thepsychologist.org.uk>. Also see the BPS Research Digest at <http://bps-research-digest.blogspot.co.uk/>.

Psychology Review: There are some free resources from this publication available at <https://www.hoddereducation.co.uk/magazines/magazines-extras/psychology-review-extras>

✓ WATCH

The new era of positive psychology: in this TED talk, Martin Seligman discusses psychology as both a field of study and as it works one-on-one with each patient and each practitioner. As it moves beyond a focus on disease, what can modern psychology help us to become?

https://www.ted.com/talks/martin_seligman_the_new_era_of_positive_psychology

✓ DO

Forensic Psychology: this free online course run by the Open University will help you learn how forensic psychology helps obtain evidence from eyewitnesses in police investigations and prevents cases of injustice: <https://www.futurelearn.com/courses/forensic-psychology>

An Introduction to Cognitive Psychology: this free online course run by the Open University will help you learn how to use cognitive psychology experiments to explore the internal workings of the mind: <https://www.futurelearn.com/courses/an-introduction-to-cognitive-psychology-as-an-experimental-science>

SOCIOLOGY

✓ READ

Owen Jones, Chavs: The Demonization of the Working Class: the chav stereotype, Jones argues, is used by governments as a convenient fig leaf to avoid genuine engagement with social and economic problems and to justify widening inequality. Based on a wealth of original research, Chavs is a damning indictment of the media and political establishment and an illuminating, disturbing portrait of inequality and class hatred in modern Britain.

Sudhir Venkatesh, Gang Leader for a Day: A Rogue Sociologist Takes to the Streets: the story of the young sociologist who studied a Chicago crack-dealing gang from the inside, the fascinating story of how Sudhir Venkatesh managed to join into the gang, what he learned, and how his method revolutionized the academic establishment.

Stuart Hall, Resistance Through Rituals: Youth Subcultures in Post-War Britain: looking in detail at the wide range of post-war youth subcultures, from teds, mods and skinheads to black Rastafarians, Resistance through Rituals considers how youth culture reflects and reacts to cultural change.

✓ WATCH

Aileen: the life and death of serial killer: Nick Broomfield traces the tragic life of Aileen Wournos, America's most renowned contemporary female murderer, to its inevitable brutal conclusion. Available on All 4.

✓ DO

Propaganda and Ideology in Everyday Life: in this free online course, organised by the University of Nottingham and the British Library, find out how propaganda is used to instil political ideologies and its impact on our daily lives:

<https://www.futurelearn.com/courses/propaganda>

SPANISH

✓ READ

What do Languages admissions tutors look for?

https://web.ucas.com/ps_modern_languages

The News in Slow: www.newsinslowspanish.com.

Spanish news and magazines online: search for El País, El Mundo, 20 Minutos, En Quo, Muy Interesante, Hola.

Spanish Twitter accounts: sign up to Twitter in Spanish for authentic text that you can quickly flick through. Some ideas are: @Spain - The official Twitter for tourism in Spain, @LaFraseDelDia_ - Más que palabras. A Spanish site which tweets inspirational sayings for each day, @spanishlanguage – Official Twitter account for Transparent Language Spanish. Learn the language with free resources, social media, and research-based software that works. Tweets expressions, phrases, words and articles in Spanish, @spanishaddicts – El español de la calle (typical spoken Spanish). Esto no son simples traducciones literales, es mucho más que eso. Spanish phrases, vocab, articles and more, @spanishxxx2 – Free Spanish Sentences Vocabulary Pronunciation Grammar Tests. Tweets vocab, articles, and quizzes, @muyinteresante – Revista de ciencia, historia, tecnología, salud, psicología, innovación y curiosidades. A Spanish news organisation that tweets in Spanish only. Great for practicing your reading skills, @SpanishDict - Learn Spanish on the web. Tweets a random Spanish word frequently with the translation, @VamosSpanish– A word a day goes a long way! Use this online resource to enhance your Spanish learning and ask questions. Tweets words and phrases and translates them. Also tweets other facts and grammar, @EduLearnSpanish – learn 3 new words a day on Twitter, @SpanishWords4U – Spanish Word A Day and computer programs to learn Spanish. Tweets a new Spanish word everyday with example sentences, @LL_Spanish – Learn Spanish with words & phrases of the day from Living Language. Tweets Spanish phrases, words, articles and more.

✓ WATCH

Spanish TV: <http://www.rtve.es> – TV channel for the Spanish speaking world with news and different programmes, <http://broadcast-live.com/television/spanish.html> - live streams from the Spanish speaking world with different programmes and news, <http://www.rtve.es/television/masterchef/> - take in some culinary delights with Spanish Master Chef, <http://www.antena3.com/> - this gives you access to loads of soaps and dramas etc as well as Downton Abbey in Spanish.

✓ DO

Advanced Spanish: Protest Song: in this free online course from the Open University, you will develop your knowledge and understanding of the societies and cultures of Spain and Latin America and learn about protest song, a musical genre that has played an important role in Hispanic society: <https://www.open.edu/openlearn/languages/spanish/advanced-spanish-protest-song/content-section-0?active-tab=description-tab>

SPORT

✓ READ

What do Sports Science admissions tutors look for? https://web.ucas.com/ps_sports_science

Simon Barnes, *Epic: In Search of the Soul of Sport and Why It Matters*: Epic is a stunning mosaic of some of the greatest sporting moments in recent years, which build up to provide the reader with a better idea of what sport is for, what differentiates winners from losers, and reveals how sport teaches us how better to enjoy life.

✓ WATCH

Why girls and boys should play sports together: in the course of a career studying the limits of athletic performance, John Brenkus kept encountering one persistent myth: that physical strength is the best measure of success. In this TED Talk, he takes on an insidious effect of that myth, the idea that boys shouldn't compete with girls. He makes a bold call for kids to play together on the same teams -- and celebrates the many factors that make up athletic greatness, from teamwork to mental toughness to leadership on and off the field:

https://www.ted.com/talks/john_brenkus_why_girls_and_boys_should_play_sports_together

✓ DO

English Football: a Social History: a short, free online course run by the University of Leicester, De Montfort University and Leicester City Football Club, looking at the history, sociology and politics of football, including focuses on the World Cup and Leicester City:

<https://www.futurelearn.com/courses/football-lcfc>