

Year 11 Super-curricular activities



Name:

Tutor group:

Learning doesn't stop at the classroom door and can be very rewarding. You may choose to complete some of the optional activities in this booklet to extend your classroom learning (they're called 'super-curricular' activities).

These tasks are particularly helpful for extending and developing your understanding of your GCSE subjects. They may also inspire you to find out more and help you with your pathway decisions after GCSE. For example, do you want to study a particular subject further at A level, BTEC or at similar qualifications/levels?

Biology

During Year 11 in Biology you will learn about a range of topics including Genetics, Adaptations and Evolution. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



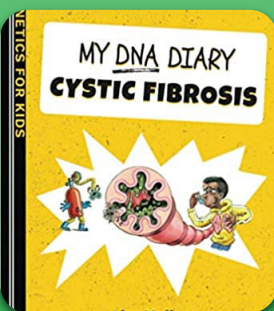
- Use Tassomai, Seneca and BBC bitesize to revise some of the topics that we will cover this year.
- Research an inherited disease such as Cystic Fibrosis, Polydactyly or Sickle Cell Anaemia. Write a brief report on causes, symptoms and treatments.
- Research an animal or plant of your choice and make a list of all of the adaptations that they have and how they enable them to survive.

WATCH/LISTEN



- BBC Inside Science, Radio 4 - A weekly programme that illuminates the mysteries, challenges and the controversies behind the science that's changing our world.
- Watch some spectacular science videos on the National geographic kids site.

READ



- My DNA Diary: Cystic Fibrosis - Lisa Mullan
- Articles on <https://www.sciencedaily.com/>
- New Scientist magazine

VISIT



- Take a virtual tour of The Natural History museum.
- Life centre, Newcastle
- Thinktank, Birmingham

Business

During Year 11 in Business you will learn and develop a wide range of skills in the field of Business. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



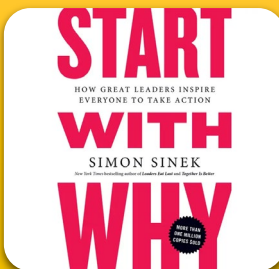
- Use Seneca and BBC bitesize to revise some of the topics that we will cover this year.
- Research exam board materials and practice materials to find examples of best practice

WATCH/LISTEN



- TED talks linked to Business
- The Apprentice, Dragons Den, Inside the Factory to gain an insight into the dynamic world of Business

READ



- "Start With Why: How Great Leaders Inspire Everyone to Take Action" by Simon Sinek
- "The Hard Thing About Hard Things: Building a Business When There Are No Easy Answers" by Ben Horowitz

VISIT



- The Sealife Centre
- The York Dungeons
- The museum of brands,
- To see how businesses operate

Chemistry

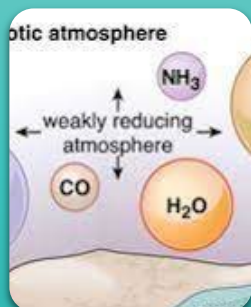
During Year 11 in Chemistry you will learn about a range of new topics including Organic Chemistry and Chemistry of the atmosphere. You may choose to complete some of the activities listed below to extend upon your classroom learning and revision.

DO



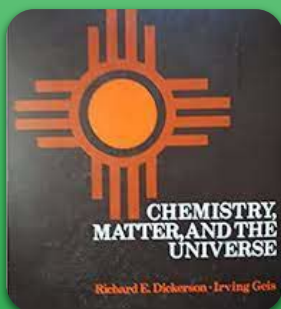
- Calculate your household's carbon footprint and make a plan of ways to reduce it use the website <https://footprint.wwf.org.uk/>.
- Create a twitter account, follow 10 relevant Chemistry organisations e.g Royal Society of Chemistry, New scientist, BBC Science news etc
- Using details of the required practicals found here <https://www.revisechemistry.uk/GCSE/AQA/index.html>, choose any one of them and attempt to write a similar method but exploring other variables.

WATCH/LISTEN



- <https://www.bbc.co.uk/programmes/p02rg84c>
- <https://radiolab.org/https://www.bbc.co.uk/programmes/b00qbg7f/episodes/guide>
- <https://www.bbc.co.uk/programmes/b07142ls>

READ



- Chemistry, Matter and the Universe By Richard E Dickerson
- Strange Chemistry: The Stories Your Chemistry Teacher Wouldn't Tell You by Steven Farmer

VISIT



- Diamond Synchrotron in Oxford

Creative and Expressive Arts

During Year 11 in CEA you will learn and develop a wide range of skills in the fields of Art, Drama, Dance and Music. You may choose to complete some of the activities listed below to extend upon your classroom learning.



DO

Get involved in the extra-curricular dance activities or work with Miss Crossley to run your own club for key stage 3 students.



WATCH/LISTEN

Listen to 'The Ultimate Dance Business Podcast' with Deborah Laws on apple podcasts.



READ

Read 'The Art of Movement, NYC Dance Project' by Ken Browar and Deborah Ory.



VISIT

Open days for dance colleges and get involved in classes and workshops.

Design & Technology

D&T

During Year 11 in Design & Technology you will learn, develop and refine a wide range of practical and design skills. Furthermore you will deepen your knowledge and understanding of the designed world. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



Create yourself a virtual Kanban board to help you organise your workflow. This tool could be really important to help you be successful on your NEA coursework.

<https://kanbantool.com/personal-kanban-board>

Think about why Kanban is a popular method of planning work in industry.

WATCH/LISTEN



- Watch the documentary on how the new mini is manufactured, assembled and tested.
- https://www.youtube.com/watch?v=6i_qSJGrxJM
- Explain the importance of robotics and automation in the factory?
- Explain the role that human workers still play in the factory.

READ



- Explore the material blogs on the kitronik website to deepen your understanding of materials technology.
- <https://kitronik.co.uk/blogs/resources/tagged/working-with-laser-materials>
- Create a revision presentation that you can use to remember key facts about material properties and applications.

VISIT



- Visit the Magna museum in Sheffield to discover the history of steel making as well the learning about the important economic and industrial impact steel products have had on society.
- Consider the environmental impacts of steel production.
- Can you suggest alternative materials or sustainable methods of production?

English

You will be studying specific texts in the English Literature and English Language courses, so it is really helpful to broaden your experience of the subjects. These activities will peak your curiosity, as well as giving you greater knowledge of social and historical contexts and more practice of key skills.

DO



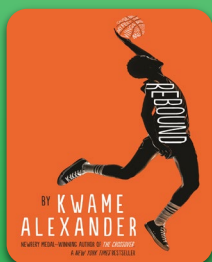
- Volunteer at library reading programmes, supporting younger readers
- Enter competitions such as Foyles Young Poets of the Year, the Orwell Youth Prize or the HG Wells short story competition
- Use the website 'The Student Room' to share experiences, seek advice and discuss fascinating topics
<https://www.thestudentroom.co.uk/>

WATCH/LISTEN



- Watch work by Nottinghamshire screenwriter and playwright James Graham, including 'Sherwood' (BBC), 'Quiz' (ITV) and his latest play, 'Bubble'
- Watch performances of your GCSE texts on stage or screen, such as 'Macbeth' and 'An Inspector Calls'
- Listen to the London Review Bookshop podcast

READ



- Explore the website of the British Library: <https://www.bl.uk/>
- Read the news, available free online from respected sources, such as the BBC, Sky News, The Guardian and The Independent
- Read nineteenth century short stories by authors such as Elizabeth Gaskell, Arthur Conan Doyle and Edgar Allen Poe

VISIT



- Visit Stratford-Upon-Avon, birthplace of William Shakespeare
- Visit the D.H. Lawrence museum in Eastwood to learn more about Nottinghamshire's most celebrated author
- Visit a local theatre to see a play: The Palace in Newark; The Acorn in Worksop; The Palace in Mansfield or the LPAC or Theatre Royal in Lincoln

Throughout Y11 we nurture student' knowledge of the exciting world of French or speaking countries, exploring their customs and festivals and their way of life. You learn how to sound like a native and by the end of the year you will be able to talk about a multitude of real-life topics and themes with fluency! We promote the skills of listening, speaking, reading, writing and translation. We practise these skills by studying topics on my world, school and free time, global and social issues, and future ambitions. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



- An app that allows you to learn languages using games <https://www.duolingo.com>
- Start learning today with flashcards, games and learning tools www.quizlet.com or create your own Blooket using AVOCADO words!
- Complete a task from our cultural menu set for homework.
- Use Memrise - practise a language using video clips of native speakers and fun games.

WATCH/LISTEN



- You can watch any film or a series you already know in the language you study with subtitles. www.languagelearningwithnetflix.com/
- Follow some YouTubers who talk about French.
- Watch a Disney song in the language you are studying.
- HelloTalk connects you to people who speak the language you want to learn.
- Watch "News in Slow French" online

READ



- Choose a book from this list to discover new literature from a new culture matadornetwork.com/read/8-foreign-language-books-every-english-speaker-needs-read/
- Read a foreign newspaper, eg Le Monde
- Visit this website to practise reading skills www.atantot-extra.co.uk/index.php
- Use spreeder.com to type in a foreign text and outwit the reader - so much fun against the clock!!!

VISIT



- Visit music/dance festivals in Leeds to discover other cultures and traditions. (This is linked to activities suggested by CEA.)
- Visit a Christmas market either in the UK or abroad and look for foreign cuisine and influences.
- Visit Paris, Madrid or Berlin - actually or virtually!
- Visit historical sites when on holiday to know more about the culture.

Geography

During Year 11 in Geography you will focus your learning on the final GCSE topic Urban Issues. This will include looking at Rio de Janeiro and Nottingham in detail. There will also be an issue evaluation that you are given 12 weeks before Paper 3 which could be only part of the GCSE specification. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



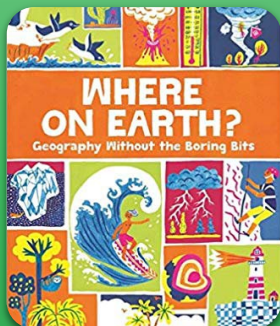
- Build a model of a Brazilian favela. Use Google Earth and an image search for inspiration
- Investigate the website <https://datashine.org.uk/> and check out the different demographic characteristics that make up Nottingham
- Plan out your revision and make use of Seneca & Educake

WATCH/LISTEN



- Check out this 3 minute video about investment happening in Nottingham - <https://www.youtube.com/watch?v=JOLTh8rJB1c>
- Watch this travel guide to Nottingham - <https://www.youtube.com/watch?v=YufGf0Lny0k>
- Learn a little about things to do and the wonders of Rio thanks to Expedia's travel guide - <https://www.youtube.com/watch?v=ieWNzZPfZzk>

READ



- Lonely Planet Rio de Janeiro by Regis St Louis
- Rio de Janeiro: Extreme City by Luiz Eduardo Soares
- Urban Transport Without the Hot Air: Volume 1 by Steve Melia
- Secret Nottingham by Frank E. Earp & Joseph Earp
- Geography GCSE Revision Guide by Pocket Posters

VISIT



- Use Streetview and Google Earth to investigate the streets of Rio
- Book a table for meal at a Las Iguanas to check out traditional and modern cuisine of Brazil
- Make time to pop into the tourist information centre on Smith Row in Nottingham and learn about this historic city on your doorstep.

German

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- Visit a Christmas market either in the UK or abroad and look for foreign cuisine and influences.
- Visit Berlin - actually or virtually!
- Visit historical sites when on holiday to know more about the culture.

During Year 11 in History you will learn about a range of topics including Russia and the Soviet Union 1917-41. You may choose to complete some of the activities listed below to extend upon your classroom learning.

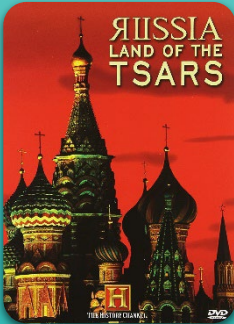
DO



Don't forget to look at the super curricular display in the bridge for some extra meanwhile elsewhere activities!

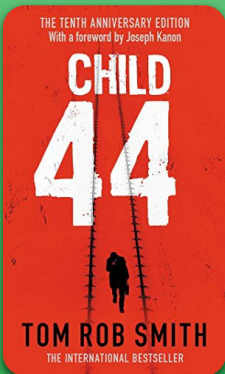
- Make a model of Lenin's tomb. Around it, write the impact that Lenin had on Russia.
- Create a puppet show where you act out the leadership contest with the key players after Lenin's death. Why not film it and put it on tiktok!
- Make a model of Magnitogorsk. Around it write down all of the achievements made at the factory. Sneakily graffiti in all of the failures of the magnitogorsk onto the model.

WATCH/LISTEN



- The last episode of the land of the Tsar (episode 4) is really useful in learning about the end of Tsarism in Russia.
- Dr Zhivago
- Lucy Wollsy: The Russian Tsars
- Animal Farm
- BBC series on Stalin - it is in three parts and on youtube.

READ



- Alexandr Solzernitzen has written lots of fantastic books all about life in Russia during Stalin's reign. The best ones - in Mr Fuller's humble opinion are - One Day in the Life of Ivan Denisovich; An incident at Krechova station; Gulag Archipeligo
- Tom Rob Smith has written lots of great books about life in Stalin's Russia. Child 44 is the first of the trilogy.
- There are also plenty on non fiction books. Orlando Figes' The Russian Revolution is a great short summary.

VISIT



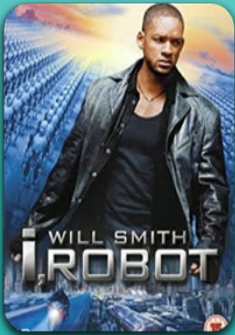
- At the moment, visiting Russia is not recommended, however you can view a few of the museums online. The Hermitage, for example, has an online platform so that you can wander around virtually.
- The Imperial War Museum has plenty of resources about WWI and WWII and has a specific exhibition about Russia during WWII. Interestingly they have a section on the space race too!

During Year 11 in ICT you will learn how to collect, present and Interpret data from a variety of sources. You will also develop important technical skills and further explore effective Digital Working Practices. You may choose to complete some of the activities listed below to extend upon your classroom learning.



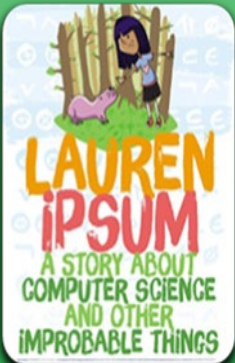
DO

- Research Cybercrime which is an increasing threat to the modern world.
- Find out what cyber security is and the importance of legal and ethical considerations when using modern technologies.
- Research how cloud technologies allow remote teams to work together more effectively.



WATCH/LISTEN

- iROBOT starring Will Smith
- The Matrix
- The Imitation Game
- Ghost in the Shell
- Westworld



READ

- Lauren Ipsum - a story about computer science and other improbable things
- Pearson REVISE BTEC National Information Technology Revision Guide 3rd edition: for home learning, 2022 and 2023 assessments and exams (REVISE BTEC Nationals in IT) by Ian Bruce
- REVISE BTEC NATIONAL Information Technology: REVISION WORKBOOK by Daniel Richardson

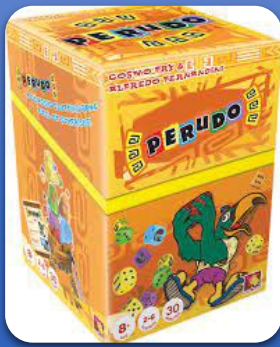


VISIT

- The National Museum of Computing
- Apple stores
- University/College open days

Mathematics

During Year 11 in Mathematics you will learn about a range of topics and how to apply these to problem solving. You may choose to complete some of the activities listed below to extend upon your classroom learning.



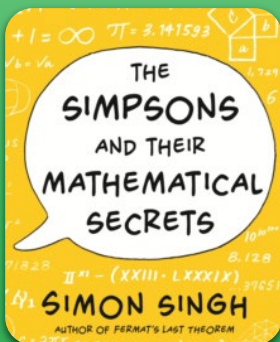
DO

- Put your probability skills into practise with a game of Perudo! This fast-paced South American dice game involves guess work, luck and bluff, plus a degree of skill and guile.



WATCH/LISTEN

- TED talk "**Pixar: the math behind the movies**" by Tony DeRose.
<https://ed.ted.com/lessons/pixar-the-math-behind-the-movies-tony-derose>
The folks at Pixar are widely known as some of the world's best storytellers and animators. They are perhaps less recognized as some of the most innovative math whizzes around. Pixar Research Lead Tony DeRose delves into the math behind the animations, explaining how arithmetic, trigonometry and geometry help bring Woody and the rest of your favorite characters to life.



READ

- **The Simpsons and their Mathematical Secrets** by Simon Singh is based on the premise that "many of the writers of The Simpsons are deeply in love with numbers."
- **Gödel, Escher, Bach: An Eternal Golden Braid** by Douglas Hofstadter is a wonderful exploration of fascinating ideas at the heart of cognitive science: meaning, reduction, recursion, and much more.



VISIT

Royal Observatory, Greenwich: Home of Greenwich Mean Time (GMT), the Prime Meridian of the world and London's Planetarium.

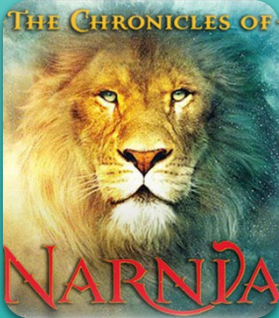
Philosophy and Ethics

During Year 11 in Philosophy and Ethics you will learn about a range of topics including relationships, dialogues between religions and Muslim beliefs and practices. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



- Take part in the free online lectures offered by the University of Chester. Search TRS Chester Webinars for more information.,
- Try making some Barfi - a traditional Muslim sweet, eaten during festivals and celebrations.



WATCH/LISTEN

- Take a look at 'The Cogito' channel on youtube for an insight into some of the A Level topics. Can you see how these build on what you have studied at GCSE?
- Listen to a podcast from Philosophy Bites. Look for the episode by Kate Manne on Misogyny and Male Entitlement.



READ

- Heretics Anonymous by Katie Henry
- Does my Head Look Big in This/ by Ranfa Abdel-Fattah
- Skin by Liam Brown



VISIT

- Visit a Mosque and look for different aspects that demonstrate each of the 5 pillars of Islam. Consider, if you went to a Church would you get a similar clues about beliefs and practices?

Physical Education

In year 11 Physical Education you will learn about a vast range of topics, such as the anatomy & physiology of the human body, sports psychology, training methods & socio cultural influences in sport. In addition you will have the opportunity to prepare participants to take part in sport, improve others participation rates and develop their fitness levels. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



- Plan and lead a physical activity session beyond the classroom in your local community
- Participate in an Inter College sports event.
- Attend an extra-curricular sports club at Tuxford Academy.
- Represent the Academy and your club in a competitive sporting fixture against another school.
- Take part in a recreational activity e.g. cycling, swimming, walking, running.
- Record a physical activity session each week using apps such as Strava or Apple Watch

WATCH/LISTEN



- An annual sporting event e.g. Grand National, FA Cup final, Wimbledon.
- Watch Sports Personality of the Year
- Watch a sports documentary, e.g. The Last Dance, Future of Womens Football
- Watch a youtube clip about a sport which is being studied in a unit of work in PE.
- Watch a programme/documentary around health and well-being
- Listen to a podcast such as High Performance from Jake Humphreys

READ



- An autobiography about a sporting icon.
- A sports magazine e.g. cycling/golf/fishing.
- An article from a newspaper focussed on sport.
- The rules associated with sports studied in Physical Education.
- A media platform e.g. BBC Sport
- Read the PE Review
- Read around the future content of your course

VISIT



- A local leisure centre, e.g. Retford, Ollerton, Newark
- A live sporting event.
- Clumber Park, Sherwood Pines to take part in a 5km park run.
- Any facility associated with sport in the UK e.g. a climbing centre, sking centre, Sherwood Pines (Red run)
- An international sporting venue e.g. Olympic Stadium, Nou Camp, Wimbledon.
- Universities to experience workshops based around health & fitness

Physics

During Year 11 in Physics you will learn about a range of topics including XXXX. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



- Research how Earth's magnetic field reversing will affect compasses, airplanes and migratory animals
- Consider who you think the most influential physicist is, and why



WATCH/LISTEN

- The miniseries, Chernobyl - not just about what happened in Chernobyl, but why
- The podcast, Space - very varied topics but all about space



READ

- Limitless - Tim Peak's (British Astronaut) autobiography
- For the Love of Physics by Walter Lewin - from the edge of the rainbow to the edge of time, a journey through the wonders of physics



VISIT

- We The Curious, Bristol - includes the UK's only 3D planetarium!
- Woolsthorpe Manor, Lincolnshire (Isaac Newton's home)
- Thinktank Planetarium, at the Birmingham Science Museum

Psychology

During Year 11 in Psychology you will continue to develop a wide range of skills including analysis and evaluation. You will look at several different topics this year including: Development, Language and Psychological Problems. You may choose to complete some of the activities listed below to extend upon your classroom learning.

DO



Design your own psychological study in an area that you're interested in. Consider what research method you would use and how it would work. Then think critically about it and explain how it could be improved. You could design multiple different studies, each with a different research method.

WATCH/LISTEN

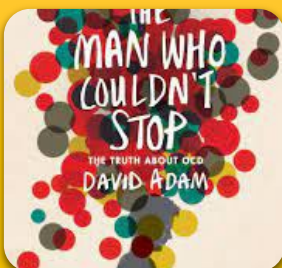


Podcast: Psych Crunch

There's plenty of documentaries on Netflix that are relevant. Examples include:

- The mind explained
- Babies
- The world within- 'React'

READ



-The BPS research digest is a weekly blog you can read that contains multiple recent articles on new research

-The book of the half term which is on display in every Social Science classroom. Previous books include:

The Man Who Mistook His Wife for a Hat.

The Little Book of Psychology

Quirkology

VISIT



- Freud Museum- London
- London Zoo- phobias exhibition
- Legal London Tour - Old Bailey & Royal Courts of Justice
- The Museum of Brands, Packaging & Advertising

Sociology

During Year 11 in Sociology you will learn and develop a wide range of skills. You may choose to complete some of the activities listed below to extend upon your classroom learning.



DO

Follow Simple Politics on social media

Take part in Tuxfords debate club/ Tuxford Feminist Society

Read around the subject

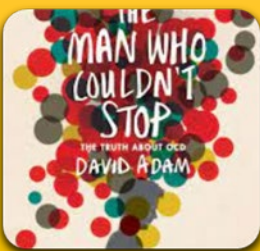


WATCH/LISTEN

Netflix- 13th

Netflix- When they see us

BBC- Living with poverty (short clips)



READ

Keep up to date with news around crime and poverty

Invisible Women- data bias

So you want to talk about race?

We should all be Feminists



VISIT

- Victoria and Albert Museum of Childhood
- Karl Marx Walk - Londond

Spanish

Spanish

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