

THORNDEN SCHOOL



Broadening Horizons

Broadening Horizons Rationale

Qualifications are important, show your potential and can create opportunities, but we want you to leave Thornden as a rounded individual with a broad education and a thirst for knowledge. A student who wants to continue to learn, who knows how to think and can communicate their understanding well.

The activities in this booklet suggest ways in which you can begin to explore subjects from new perspectives and in greater depth, going beyond the examination specifications.

They may stretch you and challenge you to think about more independent methods of learning away from the classroom and teachers. Read it carefully, ask questions and begin to take control of your own learning.

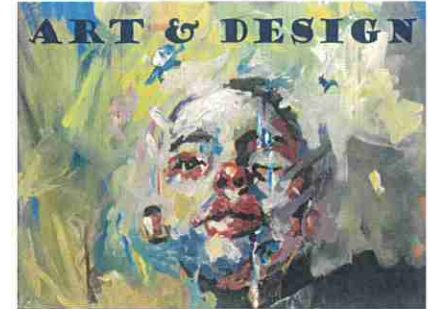
Steve Hicks

Head of School



Broadening Horizons

ART & DESIGN



- Visit exhibitions in London such as Tate Modern, Tate Britain, The Royal Academy of Arts and Saatchi Gallery.
- Visit local art galleries such as John Hansard Gallery and City Art Gallery in Southampton or, The Gallery, Winchester Discovery Centre.
- Have a read of the arts section in a weekend broadsheet newspaper
- Watch relevant television programmes such as Portrait Artist of the Year on Sky Arts, The Culture Show or Channel Four documentaries.
- Art blogs such as 'It's Nice That' and 'Creative Review' provide information about up and coming artists and exciting exhibitions.
- On holiday, explore the local area and enquire about local arts and crafts of the area. Visit museums, take photographs and sketch what you see.
- Take your sketchbook and camera everywhere you go. Whether it is the changing seasons, an interesting object or architecture, inspiration is all around.



BUSINESS



Business is happening all around you. Look at the shops in your local area, the flyers that drop through your front door and the signage on lorries, vans, cars, mopeds and cyclists as you travel around. Business is not just happening in your immediate vicinity. Watch the news, read newspapers, magazines and articles on the internet to see what's happening nationally and internationally. Think. Ask questions. Discuss. How are events unfolding on the other side of the world impacting business activity here in Hampshire? These “events” at first glance might appear to have nothing to do with business. They might be natural – droughts, fires, floods, pests, disease. They might be human – economic turmoil, strikes, political unrest, riots, coups, wars, mass migration. Threats, to the entrepreneur, are also opportunities. The trick is to be aware and to anticipate; always one step ahead. Watch closely – who gets in first?

Things to watch

- Any news / current affairs programmes
- Dragons Den
- Inside the Factory
- TED talks

Things to read

- News articles online
- Broadsheet newspapers
- Richard Branson “Finding my Virginity” 2017 autobiography

Places to visit

- Cadbury World
- Harry Potter Studios
- Try to visit a local business and ask questions about how the business meets the needs of their customers

Things to do

- Sign up for Student Investor in the autumn and try and beat Miss Reid!
- Run a stall at a charity event



COMPUTER SCIENCE



Further learning material for computer science

Books

- The GCHQ Puzzle Book one and two by GCHQ
- Lorenz: Breaking Hitler's Top Secret Code at Bletchley Park by Captain Jerry Roberts
- Lauren Ipsum: A Story About Computer Science and Other Improbable Things by Carlos Bueno

Websites

- Solving problems linked to cyber security - <https://go.joincyberdiscovery.com/>
- BBC Bitesize - <https://www.bbc.co.uk/bitesize/examspecs/zmtchbk>

Video

- YouTube playlist covering the Computer Science topics
 - [Videos on Paper 1 Topics](#)
 - [Videos on Paper 2 Topics](#)
- A collection of BBC programs on a range of computer science topics - <https://computer-literacy-project.pilots.bbcconnectedstudio.co.uk/>
- TED talks on technology <https://www.ted.com/topics/technology>
- A range of BBC programs - <https://computer-literacy-project.pilots.bbcconnectedstudio.co.uk/beeb>

Podcasts

- Wired - <https://www.wired.co.uk/podcasts>
- BBC Tech Tent - <https://www.bbc.co.uk/programmes/p01plr2p/episodes/downloads>
- This Week in Tech - <https://twit.tv/shows/this-week-in-tech>
- Dark Net Diaries - <https://darknetdiaries.com/episode/> (Please be advised that some episodes do contain swearing.)



DESIGN & TECHNOLOGY



Much of what you learn through design & technology are life skills, i.e. cooking, use of hand tools, ICT skills.

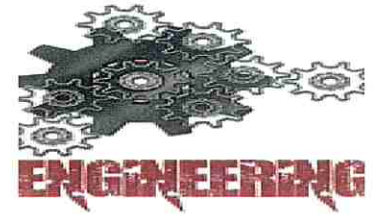
Throughout the subject you learn how to problem solve and become an independent thinker.

Design & technology allows questions to be asked about how things are made and work. Every day you are using products that have been designed and made!

- Look at products you use – ask yourself – Is it “good design?” Is the design “form over function?” Question the products you use and evaluate their effectiveness.
- Visit exhibitions in London such as the Design Museum and the V&A Museum of Art & Design.
- Create a visual sketch journal which aims to develop design skills, a small A5 or A4 sketchbook.
- Watch relevant television programmes such as Extreme Engineering, Mythbusters, Impossible Engineering, The Great British Sewing Bee.
- Find out about designers/architects/chefs and practitioners from the past for insights into how products and design have evolved. Look at Dyson/Christian Dior/Jamie Oliver/Norman Foster/Sir Jonathan Ive.
- Look out for opportunities to visit local colleges and explore the content of product design / graphic design / engineering / catering courses at A level and beyond.
- Whilst shopping have a critical eye focussed on the things you see - always have the “how does that work?” question in your mind!



ENGINEERING



Engineers are all problem solvers and creative thinkers.

Look at the world around you – question how things are made and how they work?

Watch TV programs such as Extreme Engineering/myth busters, Top Gear, Impossible Engineering, Richard Hammonds Engineering Connections.

Visit exhibitions such as Solent Sky Museum/ Portsmouth Historic Dockyard / Royal Navy submarine museum, Portsmouth.

Find out about historic Engineers like Thomas Telford and Isambard Kingdom Brunel. What did they do – how did they change our world?

If you have old products that don't work anymore or are not needed – why not take it apart and see what is inside.

Find out what colleges offer in Engineering courses – where could this lead you after school?



DANCE



Dance comes in many styles and forms. Aim to look at and try as many different approaches to dance as you can. It will not only give you a broader and stronger base to work from, but you might also discover a real talent for a style of dance that you haven't even tried yet! Although we don't expect you to dance outside of school, participation in any quality dance group can help build skills and confidence, whether it's in a traditional dance school or by joining one of a number of local Youth Dance groups.

The Point Theatre is right on our doorstep in Eastleigh. It has a fantastic programme of professional performance and Youth Dance participation. Take a look at their website: <https://www.thepointeastleigh.co.uk/>. Our very own Thornden Hall also broadcasts live Dance events from top London venues.

You could also have a look at the following:

- Join one of the three companies in school: Junior Dance, Senior Dance or Pulse (Boys Dance)
- Read the culture and reviews sections of newspapers to see in advance what's on and read reviews of dance that interests you.
- Go onto YouTube and find examples of dance that interest you, perhaps snippets that you find in newspaper reviews
- Audition for Thornden School Productions – we have a major musical production each year!
- Join local dance groups
- Watch Sky Arts, BBC4, BBC2 and Channel 4 who all broadcast major dance performances
- Watch styles from different countries and cultures – Irish/Flamenco/Salsa/Tango/Ballet/Jazz/Tap/Musical Theatre/Contemporary etc.
- Look out for Matthew Bourne's 'New Adventures'. This is a particularly good and accessible company to watch.
- Find out about choreographers both present and past. Look at Matthew Bourne/Bob Fosse/Jerome Robbins/Christopher Bruce/Richard Alston/Wayne McGregor/Kenrick H20 Sandy/Martha Graham and others!



DRAMA



Drama will open up a whole world of theatrical possibilities for you. Aim to see as much theatre as possible whether live or digitally streamed – although live theatre is always so much more exciting! Sign up for the ‘Whats-On’ brochures of our local theatres; The Mayflower Theatre in Southampton often has various touring productions of West End musicals plus classic straight plays. The Nuffield Theatre also has a plethora of creative fringe productions, often produced by well-known production companies such as Kneehigh or Frantic Assembly. The Point in Eastleigh and The Berry in Hedge End also often have interesting productions. Our very own Thornden Hall also regularly streams productions by the National Theatre.

You could also have a look at the following:

- Read the culture sections of newspapers to see in advance what’s on and read reviews of plays that sound exciting.
- Visit Foyles bookstore and read a playscript that you find interesting.
- Audition for Thornden School productions – we produce several per year so there are always lots of opportunities.
- Join a local amateur dramatics company, there are several fantastic inclusive local companies. Being in a live production will give you an invaluable and enjoyable experience.
- Listen to Radio 4 and Radio 3 Drama: the plays here can be excellent.
- Keep a track of some of the following theatre companies and go to see their work whenever you can: Complicite/Kneehigh/Shared Experience/ Frantic Assembly/Cheek by Jowl/Punchdrunk/Push/Splendid
- Go to the Globe Theatre in London for a flavour of the origins of modern theatre
- Access the National Theatre’s interactive website – they also run playwriting competitions.
- Find out about directors and practitioners in the past for insight into how theatre continues to change and evolve. Look at Stanislavski/Brecht/Boal/Artaud/Brook/Berkoff/Grotowski.



ENGLISH



Reading

Keep up-to-date with who is winning literary prizes, such as: the Carnegie Medal; the Hampshire Book Awards. Stay in touch with current ideas, via Guardian Opinion articles.

Writing

Research young writers' competitions and submit an entry. Consider the BBC 500 Words competition.

Theatre/Cinema

Use the local cinema to access some of the best stage productions, through National Theatre Live streaming.

Cultural Tourism

Take a trip and broaden your contextual and literary knowledge simultaneously!

- Jane Austen's Winchester & Chawton House
- Charles Dickens' Portsmouth birthplace
- Thomas Hardy's Dorset



GEOGRAPHY



Geography is vital in enabling us to make sense of our constantly changing world. It allows us to question and develop a deeper understanding of the relationships between the physical and human worlds and helps us get to grips with some of the big issues we face in the UK and around the world. Geography is in the news every day, covering local issues such as controversial plans to explore fracking sites; national developments like the proposed High Speed 2 rail-link between Birmingham and London; and global concerns about the impacts of climate change and how to manage thisthe list is endless.

Geography teaches us to not only understand these issues but importantly, how we can live alongside our natural surroundings, both now and in the future.

To engage and challenge yourself in geography:

- **Read a good daily newspaper/ news website.** So much news has a geographical element. Keep a close eye on relevant news stories to become an informed, global citizen. You can access the online newspapers 'echalk' and 'The Day' through student share by clicking on the eresources link.
- **Social media** is great for following newspapers, BBC, Geogabout or many other groups that regularly promote geographical stories. Regularly dipping into these articles will widen your geographical knowledge.
- **Get blogging!** You could express your views and opinions on global and local issues on sites such as the BBC, or the geography twitter page @GeogThornden.
- **Enter geographical competitions.** The Geography Association and Royal Geography Society websites often have poster and essay competitions. Explore their websites to find out more on current geographical hot issues and any competitions they are running.
- **Watch TV.** There are so many geographical and issue-based programmes on TV including dedicated channels on freeview such as the Discovery Channel and National Geographic.





- **'Our Planet Matters'**. This is a year-long series of special programmes on climate change run by the BBC during 2020. A raft of news services and shows are planned and available as part of the Our Planet Matters project. These include a new monthly **Climate Check** video feature from BBC Weather, and coverage of debates and events around the globe.
- **David Attenborough** has produced a range of documentaries on our planet which are absolutely fantastic and well worth watching. He also plans a **new hour-long documentary** for the Our Planet Matters project called 'Extinction: The Facts' which will examine the fragile state of the natural world.
- **Thornden's library**. There is a wide range of geographical books which will support the topic you are studying and your teacher and the librarian will point you towards the relevant ones. You will also find copies of the geography magazine 'Wideworld' packed with current geographical news and interesting articles.
- **Holidays**. Visiting a variety of different places enables you to gain a wider knowledge and appreciation of our world. Read travel guides before you go and during your trip to help you understand the physical and human features of the place that you are visiting.
- **Sixth Form college**. Look out for opportunities to visit local colleges and explore the content of geography courses at A level and beyond.



HISTORY



Here are some ideas for extending your love for history. Dip in or out as much as you want depending on your area of interest. Remember, these do not count as revision but will further your enjoyment of the subject!

Germany:

- Rise of Evil - on Netflix starring Robert Carlyle. This is a drama about Hitler's childhood and how he became dictator of Germany. Very good factually and Carlyle is a very convincing Hitler!
- BBC documentary - The Nazis; a Warning from History - this is excellent but long.
- Another BBC documentary is Rise of the Nazis – this chronicles how Hitler became dictator of Germany.
- Sophie Scholl or Downfall - both German films with subtitles but very interesting.

Vietnam/Korea:

- A very good documentary series on BBC4 called Never Ending War.
- The historian Max Hastings has written a book on Korea and one on Vietnam - both long and very detailed. Audio book form may be good.
- A few good Vietnam films are available e.g. Good Morning Vietnam, Forest Gump.

Elizabeth:

- Time Travellers Guide to Elizabethan England by Ian Mortimer is available on YouTube – an excellent documentary series about life in the reign of Elizabeth. The book is also excellent.
- Elizabeth and The Golden Age – two films starring Cate Blanchett.
- Mary Queen of Scots - latest one with Margot Robbie - good but Mary and Elizabeth never met so not 100% accurate!
- Elizabeth's Secret Agents (BBC iPlayer documentary) is excellent. Episode 1 and 2 are the most relevant.
- Queen Elizabeth I (BBC iPlayer documentary) by Vanessa Collingridge.
- Keep an eye on Channel 5 as there are often documentaries on about Elizabeth – Suzannah Lipscomb/Dan Jones are an excellent combination.



TV series:

- The Virgin Queen - Anne-Marie Duff and Tom Hardy -
- Helen Mirren's Elizabeth - covers Mary Queen of Scots and Earl of Essex rebellion - Elizabeth in her older years



Podcasts – these are great to listen to on a journey, going for a walk, exercising. No need to take notes just listen to consolidate what you already know and add a bit more knowledge. Choose what you are interested in or areas you consider to be weaker.

- The 'Dead to Me' series produced by BBC. These are really entertaining and have been made by someone from Horrible Histories.
- In Our Time with Melvin Bragg on BBC Sounds. These are 30-50 mins and excellent:
 - The Spanish Armada
 - The Danelaw
 - Alfred and the Battle of Edington
 - Agincourt
 - William Cecil
 - The Death of Elizabeth I
 - St Bartholomew's Day Massacre
 - Highland Clearances
 - Mary Queen of Scots
 - The Pilgrim Fathers
 - The East India Company
 - The Berlin Conference
 - The Indian Mutiny
 - Slavery and Empire
 - The British Empire
 - Hitler in History



- Great Lives – BBC Sounds
Emma of Normandy
Elizabeth I
- Dan Snow History HIT BBC Sounds
The Rise of Hitler
Agincourt
The Rise of the East India Company
- Omnibus BBC Sounds
Cecil Rhodes



Magazines/Periodicals there will be articles about some familiar areas and others that might just interest you.

History Revealed – this is available in the library

BBC History Magazine – individual copies available at places such as WH Smiths or you can buy a subscription (good birthday or Christmas present idea)

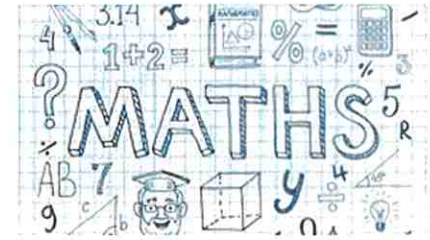
History Festival

October sees Winchester turn into a venue for some the top historians in the country to come to and give talks on a chosen topic. The festival runs for three days Friday to Sunday and the talks are about an hour with an opportunity to meet the historian for a book signing. It is worth checking the BBC history website and signing up to a newsletter so you can book when tickets become available as they go fast for some of the more well-known historians.

Chalke Vale History Festival (nr Salisbury) – lots of things going on here such as talks from historians, demonstrations and lots of food!



MATHEMATICS



There are a wealth of resources and activities that you can investigate and try in order to stimulate your mathematical curiosity and understanding outside of the normal mathematics curriculum.

Websites to visit

<https://nrich.maths.org/> - The NRICH website has some excellent puzzles, investigations and articles on areas of maths.

<https://www.echalk.co.uk/> - Username: thorndenschool, Password: echalk – Take a look at the optical illusions section as well as the dedicated maths area.

<https://www.ukmt.org.uk/> - The home of the UKMT Maths Challenges which are available through school.

<https://www.mathscareers.org.uk/> - Information and inspiration for careers in maths.

<http://www.careers.cam.ac.uk/sectors/maths/index.asp> - More careers in maths.

https://blog.feedspot.com/math_blogs/ - Information about maths blogs for students.

<https://www.youtube.com/channel/UCoxcjq-8xIDTYp3uz647V5A> - YouTube NumberPhile - lots of interesting videos.

<https://bletchleypark.org.uk/> - Find out more about code breaking during the war and the Enigma code.

<https://www.open.edu/openlearn/science-maths-technology/mathematics-statistics/women-mathematics-the-history-behind-the-gender-gap> - Women in maths

National Challenges to help explore maths further

UKMT Junior, Intermediate and Team Maths Challenges – Can you get a Bronze, Silver or Gold award?

National Cipher Challenge - <https://www.cipherchallenge.org/> Run by the University of Southampton.

Student Investor Challenge - <https://www.studentinvestor.org/> Create a financial investment profile and compete against other teams.

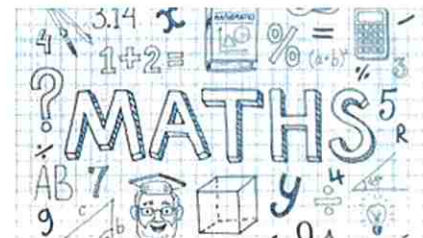


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Books to Read

There are many interesting, funny, informative and challenging books available relating to mathematics. Why not give some of these a try?

- [Why do buses come in threes?](#) – Rob Eastaway & Jeremy Wyndham
- [How many socks make a pair?](#) Rob Eastaway (and many other of his books, e.g. [How long is a piece of string?](#))
- [The Music of Primes](#) – Marcus du Sautoy (or many other books, blogs, TV programmes by the same author)
- [Does God Play Dice?](#) - Ian Stewart (and other books by the same author)
- [You are a Mathematician](#) – David Wells (and many other of his books)
- [Fermat's Last Theorem](#) – Simon Singh (and other of his books e.g. [The Cracking Codebook](#))
- [Flatland](#) – Edwin A. Abbot
- [Alex's Adventures in Numberland](#) – Alex Bellos
- [Mathsnauts: Tales of Mathematical Wonder](#) – Edited by Rudy Rucker
- [Magical Mathematics](#) - Persi Diaconis and Ron Graham
- [The Indisputable Existence of Santa Claus](#) – Dr Hannah Fry
- [How NOT to be wrong](#) – Hidden Maths in Everyday Life – Jordan Ellenberg
- [Chaos](#) – James Gleick
- [50 Maths ideas that you really need to know](#) – Tony Crilly
- [The Tiger that Isn't](#) – Blastland and Dilnot
- [How to lie with Statistics](#) – Darrell Huff
- [Bad Science](#) – Ben Goldacre
- [1089 and all that](#) – David Acheson
- [The Man who Loved Numbers](#) – Ben Hoffman
- [The Joy of Counting](#) – Tom Korner
- [A Beautiful Mind](#) – Sylvia Nasar
- [Humble Pi](#) – Matt Parker



Twitter

There are many interesting people and associations to follow on Twitter, here are some of them to try...

@GCHQ – They post some interesting maths problems among other posts. Who knows...? If you are good enough you could get a job there!

@ProbFact – One probability fact per day

@maanow – The Mathematical Association of America.

@mathshistory – History of mathematics from the British Society for the History of Mathematics

@alexbellos – Author of Alex's Adventures in Numberland

@Marcusdusautoy – Follow Marcus du Sautoy

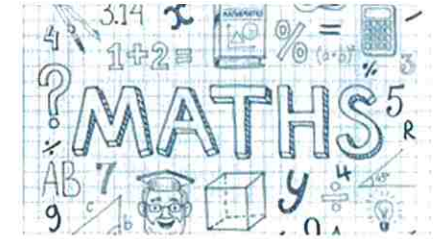
@standupmaths – Follow Matt Parker

@FryRsquared – Follow Dr Hannah Fry

@Corbettmaths - Twitter linked to the CorbettMaths website

@UKMathsTrust – Home of the UKMT Maths Challenges

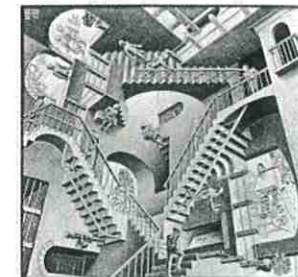
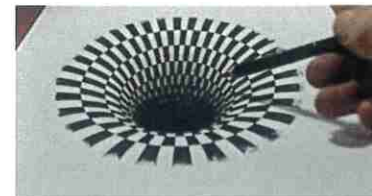
@nrichmaths – Twitter linked to NRICH website



Mathematics in Art

<https://mcescher.com/> - Look at the art of M.C. Escher involving tessellations and optical illusions.

Anamorphic Art – A fascinating practice involving a lot of maths.



Broadening Horizons

MEDIA STUDIES

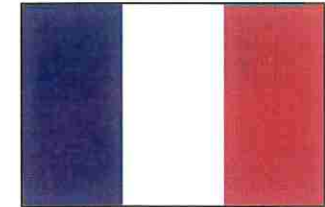


Media Studies is a broad and exciting course; aside from this, you can ensure that you're progressing your learning and enjoying yourself at the same time with these ideas to support your studies.

- Watch films, TV shows and listen to music. Once you've enjoyed your chosen form of media, find out what people are saying about it? Who made it? What was their thinking when they made it, and how has that been received by audiences?
- Practise your photography skills at every opportunity (yes, even for Instagram!). Download a free photo editing app (there are *loads* to choose from) and get creative! Experiment, and see what you can produce.
- Practise your video editing through free video editing apps (again, there are *loads* to choose from!). Here you could experiment with angles, sound editing, and focus.
- Follow a few newscasters via social media and stay up to date with current affairs (even entertainment news will be useful!). You could link a newsfeed to your social media accounts so that you're kept in the know.
- Read about media related stories (check out Technology news, TV and Film news, reading magazines and newspapers, or reading music magazines and film reviews, for example).
- Explore Netflix and Disney+ and watch 'the making of' documentaries or 'behind the scenes' series.
- Look at marketing materials for films, music and TV (posters and adverts). Consider whether it's effective? Who is the target audience? Why has it been made and what does it tell me about the product?
- When using your social media, view stories and feeds with a critical eye - is this real life?
- Try and visit the BFI in London to help frame your understanding, or venture outside of London and visit the WB Studio Tour.



FRENCH



Learning a language is a lot like learning a musical instrument – the more you practise, the more concerts you attend, the more music you hear, the greater your mastery of the instrument. Language used in the classroom is useful, but there is always so much more than you can learn in a single lesson! To become fluent in a language, you have to find as many ways as possible to immerse yourself in the language and culture of the country (countries) where it is spoken. The obvious way to do this is to go abroad, taking advantage of school trips and exchanges, but at home, you might like to try:

- ❖ Review your learning and go beyond set classroom topics on: www.quizlet.com and www.linguascope.com
- ❖ Get the latest news at: www.newsinslowfrench.com
- ❖ Find key topics and short online activities on: www.funwithlanguages.vacau.com
- ❖ Listen to French radio, or download a podcast for the journey to school: www.franceinfo.fr (Podcast)
- ❖ Research articles affecting young people at: www.ljournalactu.com
- ❖ Read a daily newspaper via www.lemonde.fr or www.lefigaro.fr or the more accessible www.lepetitquotidien.fr
- ❖ Listen to French songs to practise your pronunciation at: www.lepointdufle.net/chansons.htm
- ❖ Research a French recipe and make it at home
- ❖ Research a French speaking country – and produce a guide in a form of your choice
- ❖ Follow your favourite French football or rugby team at: www.lequipe.fr
- ❖ Watch French television: go to www.tfl.fr to access news, sports and cultural programmes
- ❖ Subscribe to Mary Glasgow Magazines for additional reading practice – see Mrs Jones if you are interested
- ❖ Netflix – you can change the language on films/series to get the French version and then add English subtitles



GERMAN



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- ❖ Listen to songs or watch music videos in German. Try these on the Goethe Institute website: www.goethe.de/ins/us/saf/prj/stg/mus/cli/enindex.htm
- ❖ Watch German TV for young people and read short articles at: www.tivi.de
- ❖ Use apps such as Duolingo and Quizlet to practise vocabulary
- ❖ Listen to an audio story at: www.dw.com/en/learn-german/mission-berlin-episodes/s-9837
- ❖ Research a German recipe and make it at home
- ❖ Research a German speaking country or community – and produce a guide in a form of your choice
- ❖ Watch films you love with German subtitles and/or audio
- ❖ Increase your daily exposure to German by switching the language on your mobile and Facebook over to German
- ❖ Visit the German Christmas market in Southampton and find a German stallholder to try out your language skills
- ❖ Go abroad, taking advantage of trips and the German Exchange
- ❖ Subscribe to Mary Glasgow Magazines for additional reading practice – see Mrs Jones if you are interested
- ❖ Netflix – you can change the language on films/series to get the German version and then add English subtitles



SPANISH



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- ❖ Read regularly, books are available from the library. There are lots of good websites where you can read stories in Spanish: www.cuentosdegrimm.com and www.cuentosinfantiles.net all have lots of stories in simple Spanish
- ❖ Listen to Spanish regularly. If you like music, find some songs in Spanish on Spotify or learn the lyrics to some Spanish songs on: <https://lyricstraining.com>
- ❖ Travel abroad whenever the opportunity arises
- ❖ Some series on Netflix to watch: Gran Hotel, Velvet, El tiempo entre costuras, La esclava blanca, Las chicas del cable
- ❖ Netflix – you can also change the language on films/series to get the Spanish version and then add English subtitles
- ❖ Watch films with subtitles in English and audio in Spanish OR vice versa
- ❖ Play games to practise on the websites we subscribe to: www.quizlet.com (available via waffle box in your email), www.linguascope.com, www.languagenut.com and www.espanol-extra.co.uk
- ❖ Try coffee break Spanish. Start here <https://radiolingua.com/2010/05/lesson-51-coffee-break-spanish/>
- ❖ Subscribe to the Mary Glasgow Magazines for additional reading practice – see Mrs Jones if you are interested
- ❖ Visit the Seneca revision website at: www.senecalearning.com
- ❖ Look at a topic/famous person you're interested in on Wikipedia in Spanish and then change the language back to English. See how much you've understood. Try and learn a new word or phrase this way



MUSIC



GCSE music aims to develop the core elements of **performing, composing, listening and appraising** in a practical and fully integrated manner. In doing so you develop many skills which are essential for the workplace and further education whether in a music related environment or not. If you do not continue with music at college etc... this qualification still shows that you have a wide range of practical, academic, artistic and creative skills.

- Listen to a wide range of music from Baroque, Classical, Jazz, to Musical Theatre, Rock, Pop etc...
- Tune into these radio stations to help; Classic FM, Radio 3, Radio 6... for example.
- Try to apply keywords and tier 3 musical vocabulary from our music glossary when listening to music.
- Use Focus on Sound! Test yourself using their online tests.
- Choose a composer / songwriter who inspires you. Do some research and find out more about them, their life, their work and how they approach the creative process.
- Watch live music events at local venues; The Guildhall and The Turner Sims Concert Hall.
- Watch musical theatre / opera productions at The Mayflower Theatre and Nuffield City Theatre.
- Watch music documentaries on BBC4 and iPlayer – some are on YouTube.
- Start learning another instrument. For example, try teaching yourself basic guitar or keyboard skills (if these aren't your 1st instrument).
- If you only play piano try learning an orchestral instrument so you can eventually join ensembles / orchestras / bands.
- Join music department ensembles or join HMS county ensembles. Join extra if you already do this!
- Take part in any relevant HMS workshops that are organised this academic year.
- If you haven't already, sign up to our music theory lessons and work towards achieving Grade 5 Theory.
- Composing; use more of your own time to experiment with ideas. Improvise and sketch out harmonic and melodic ideas using your own instrument and piano / keyboard.



PE



If you are a GCSE PE candidate you should be proactive in your learning. This can be done in the following ways:

- Physical fitness – Continue to improve your fitness and understanding of the three assessed sports. Monitor this using the training log.
- Academic research – Keep up to date with current sporting events in the media, learn the rules and tactics of sports, be aware of new types of training techniques and fitness trends that impact the public and professional sports performers.

Youtube clips

Commercialisation, Media and Sponsorship

<https://www.youtube.com/watch?v=s4Xn5VISd7w>

Components of fitness

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

Levers

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

Cardiovascular system

<https://www.youtube.com/watch?v=Qx2l6uMuziQ&t=347s>

Types of training

<https://www.youtube.com/watch?v=E2EAqUgewMw>

Drugs

<https://www.youtube.com/watch?v=EZMw3XGYjHA>

Information Processing

<https://www.youtube.com/watch?v=eHNC3gdvmo0>

Classification of skill

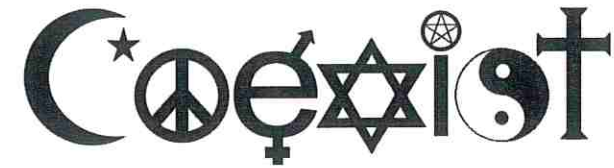
<https://www.youtube.com/watch?v=u7uLbYxLHZk>

Stay Current.... BBC Sport Website, Teach PE Website, AQA GCSE PE Specification



Broadening Horizons

RELIGIOUS STUDIES



Religious studies has become one of the most important subjects for the world we live in today. Far from being an outdated idea, religion informs the lives of billions, and for young people making their way in a complex, multicultural world having an understanding of faiths, and the societies they shape, is vital.

Not only does religious studies deal with faith, but also with the core moral and ethical debates that are at the heart of modern society. Many of these concepts are divisive, sometimes controversial, and never far from media attention. If we value life, should we use violence, abortion or euthanasia? How should people of faith approach environmental issues? How should we deal with prejudice and discrimination?

If you want to understand what people believe and how they act as a result, if you want to further your views on the complex decisions that shape our world, then religious studies is the starting point.

To challenge yourself and grow your understanding in religious studies:

- Keep an eye on reputable news feeds – **BBC News** is a great starting point, but also **the Times**, **the New York Times** and **Al Jazeera**, all of which will give excellent impartial views of current events, both at home and abroad.
- Listen online to the excellent **BBC World Service Big Ideas** podcasts.
- Watch the animated explanations of philosophical concepts at **BBC Radio 4 A History of Ideas**.
- Follow journalists and documentary makers who explore the controversial side of modern life, such as **Louis Theroux** and **Stacey Dooley** (be advised that the issues dealt with, whilst very important, can sometimes be upsetting).

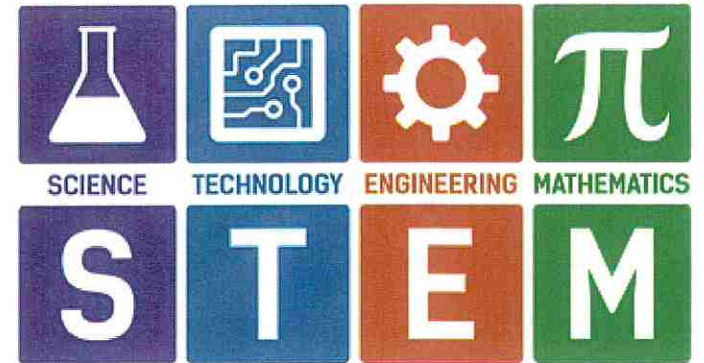


Broadening Horizons

Coe∃ist

- Visit places of worship – beyond your local church, many places welcome visitors. Find out how these places form the heart of the local faith community.
- Visit Winchester Cathedral, not as a local tourist attraction, but as a place of worship. Have a seat, and feel the accumulated faith of a 1000 years of Christian belief. There are 2 billion Christians worldwide, and their perspective is very important.
- Keep a look out for philosophical and religious articles in major magazines like ***National Geographic*** and ***BBC History magazine***.
- Check what is available in the documentaries section of ***BBC iPlayer*** – there are often programs that deal with religious, moral and ethical issues. You'll be surprised at how many topics are underpinned by these concepts.
- Check out ***BBC Teach Religious Studies*** on ***YouTube*** – there's a surprising variety of material there.
- Read! Many literary works deal with key religious or philosophical concepts - ***Strange Case of Dr Jekyll and Mr Hyde***, which you encounter in English, or try Philip Pullman's ***His Dark Materials Trilogy***. For mature readers, try Margaret Atwood's ***The Handmaid's Tale***.
- On social media, follow reputable news organisations or social commentary platforms, such as ***BBC News***, ***Al Jazeera***, or ***Global Conversations***. Many key political decisions are made, at least in part, with a religious bias. Understanding these perspectives is crucial.





SCIENCE & STEM

STEM subjects allow us to understand how the world works. They give us the skill set to critically analyse information and to solve problems. They have been the backbone of the advancement of the human race, from the mastery of fire, the development of the wheel, to the principles of electromagnetism and through to modern day computing STEM subjects have given us the capacity to understand and engineer the world around us. These subjects are at the forefront of modern study and cultural discussions. That can be on a large scale, with global concerns over climate change and the impact that will have the analysis of which involves aspects of science, engineering mathematics and ICT to provide models which help us to predict possible outcomes. It can also be on a national scale, the construction of national infrastructure, the advancement of technology for renewable energy and finding alternatives to fossil fuels will require young people to be at the forefront of these changes.

These subjects are truly fascinating and can lead such a wide range of opportunities and jobs, many of which we may not have even conceived of yet!

CAREERS

Biology careers: <https://www.rsb.org.uk/careers-and-cpd/careers/career-resources>

Chemistry careers: <http://www.rsc.org/careers/future/your-future-chemistry>

Physics careers https://www.iop.org/education/teacher/student/file_71967.pdf

Engineering careers: <https://education.theiet.org/secondary/careers/>

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

<http://www.futuremorph.org/14-16/>

<https://www.smallpeicetrust.org.uk/> run a variety of short residential courses in engineering, which are charged for.

<https://www.smallpeicetrust.org.uk/momentum-events> is for Years 10 – 12.

GENERAL SCIENCE

Website reading materials: https://www.bbc.co.uk/news/science_and_environment

<https://www.scientificamerican.com/>

https://subscription.newscientist.com/packages/newscientist-2019-blackfriday.php?promCode=13937,13938&packageCodes=TAP&offerCode=Q,6M&qclid=EA1aIQobChMImZX8vYGL5gIV15TVCh1BWAoLEAAYASA AEgLGiPD_BwE – a subscription is required for this site.

<http://magazines.stem.org.uk/> provides access to student-friendly magazines in STEM.

Podcasts: <https://www.bbc.co.uk/podcasts/category/scienceandnature-scienceandtechnology>

Video clips: <https://www.ted.com/talks?topics%5B%5D=science>

https://www.youtube.com/results?search_query=kurz+gesagt has some very entertaining Science videos.

<https://www.bbc.co.uk/programmes/genres/factual/scienceandnature/scienceandtechnology/player>

BIOLOGY

<https://bigpictureeducation.com/>

<https://www.biologycorner.com/>

<https://eol.org/> encyclopaedia of life

<https://biologyheritage.rsb.org.uk/bcw-new-project>



CHEMISTRY

Video clips of chemical reactions at <http://www.periodicvideos.com/>

Interactive periodic tables at: <https://www.webelements.com/>

<https://ptable.com/#>

<http://www.essentialchemicalindustry.org/index.php>

<https://www.chemistryjokes.com/>

<https://www.chemistryworld.com/>

<https://www.compoundchem.com/>

PHYSICS

<http://www.physics.org/explore.asp>

<https://cyberphysics.co.uk/>

<http://www.splung.com/>

<https://isaacphysics.org/gcse>

<https://www.youtube.com/channel/UCHnyfMqiRRG1u-2MsSQLbXA> is the Veritasium YouTube channel which deals with common misconceptions.



ENGINEERING

<http://www.discovere.org/discover-engineering>

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

FORENSIC SCIENCE

<http://forensics.rice.edu/>



Broadening Horizons