

More Able Student & Parent Guide



Students

As a more able student, we have the highest aspirations for you, and aim to develop your skills as independent, curious, and high-achieving learners whilst here at John Whitgift Academy. This guide contains tips from your teachers in each subject area on how to be confident and successful learners; what materials to access to stretch and extend your knowledge, and wider reading lists to support and broaden your classroom learning.

This guide is not made to sit down and read in one go. Instead dip into it periodically.

Parents and carers

This guide contains tips and advice on what you can do as parents and carers to support your more able child in achieving their best outcomes, widening their world view and raising their aspirations for the future.

What does it mean to be more able?

- You pick up ideas quickly and have good understanding of a wide range of topics and subjects
- We have the highest aspirations for you- especially for your GCSE exams
- You are capable of 'more' and we expect you to work hard and go the extra mile
- Access to academic qualifications that may not be suitable for other learners: Triple Science, Languages, Computer Science, further maths
- Your future should include university and higher-level qualifications that leads to professional careers



The Core

English

Maths

Science

Subject: English

What can students do to further develop their skills in this subject area?

- **Read widely** – both for pleasure (Reading Routes is ideal for this), as well as around the topics being studied in lessons. For example, students studying *Private Peaceful* in year 7, could read non-fiction texts about WW1. If *A Christmas Carol* is being studied, try reading another novel that Charles Dickens wrote or complete some independent research into what life was like in his day. See the English page on the school website for the wider reading lists.
- **Engage in discussion** about topics being explored in English lessons. Talk to adults and other students about the ‘Big Question’ for each unit, as well as the supplementary texts used in classes.
- Take a **leading role** in learning in lessons – collaborative learning will encourage and allow this.
- **Engage in discussion with older generations** to explore and appreciate a wide variety of ideas and opinions. For example, do your parents think there is still a class divide? (*Blood Brothers*)
- Attend **theatre performances** of plays by authors of texts studied in class. The English department will offer students enrichment opportunities.
- Develop a **wider awareness of current affairs**, accessing quality newspapers and current affairs programmes, e.g. Newsnight and Question Time
- Be aware of and watch **documentaries** and television series exploring key themes and ideas explored in class- see the wider reading list
- Research **historical factors** relating to texts studied beyond those explored in class.
- Visit **local libraries and bookshops** to attend workshops, book signings and book launches. Sign up: [Join the Library - North East Lincsinspire \(lincsinspirelibraries.com\)](http://lincsinspirelibraries.com)

- Attend **extra-curricular clubs** offered after school. The English department offer a creative writing club, Carnegie Shadowing club and more-able reading club.
- Join a **local theatre group**.
 - [Pauline Quirke Academy - Cleethorpes \(pqacademy.com\)](http://pqacademy.com)
 - [Stagecoach Grimsby | Children's Dance, Drama, and Singing Classes](#)
 - [Footlights Grimsby ★ Footlights Theatre](#)
 - [Duckegg Theatre Company Grimsby - Netmums](#)
- Take the opportunity to enter the **competitions** put on by the Academy.
- Enter a range of **literary competitions** such as Poetry First and get involved in the Delta multi-academies competitions.
- Get involved in **local competitions** such as the Grimsby Telegraph Young Reporters scheme.
- **Take responsibility** for your own learning: Access Teams when you are absent to complete work- don't leave gaps.

What websites could students visit to support the curriculum?

- National Novel Writing Month - www.nanowrimo.org
- Broadsheet newspaper websites – for instance [The Times Online](#); [The Guardian](#); [The Independent](#); [BBC News](#).
- [BBC iPlayer](#) (radio) store numerous podcasts and recording of classic literature.
- Young Writers- [Poetry & Creative Writing For Schools | Young Writers](#)
- [Bookfinder: find children's books for every age | BookTrust](#)
- [KS3 English - BBC Bitesize](#)
- [Explore | The Home of Big Questions](#)- Discussion for students and their parents
- Refer to the wider reading lists for topic specific websites

How can parents/carers help and what can be done at home?

- Sit and read regularly with your son or daughter. Recommend books that you have read. Discuss key issues and ideas explored

in the text being read. The Delta Reading Guide given to you in year 7 will support you with the kinds of questions to ask. (KS3)

- Help them join the library and encourage wider reading
- Use the wider reading list to stretch and challenge them
- Talk about what they are reading and ask questions
- Encourage your son or daughter to practise speaking and listening presentations to develop confidence when speaking publicly. This is where most students feel least confident.
- Watch documentaries relating to key themes explored in the academy and explore the ideas discussed.
- Encourage them to join an enrichment club
- Discuss the news and introduce an interesting fact or topic of the week. Alexa has a fact of the day.
- Attend theatre performances of texts being studied in class.
- Visit literary places of interest to support study of texts and authors: Bronte Parsonage, Stratford upon Avon, The Globe Theatre, Warner Brothers Studios. The link below outlines more information for a Literary tour of the UK: [Literary England: 42 Places to See -The Book Family Rogerson](#)
- Give children a broad range of experiences, e.g. visiting exhibitions, listening to music, eating different food.
Attend RAG meetings when invited (KS4)
- Practice quote chunking with them (KS4)
- Encourage a growth mindset: [Mindset Kit | What is a growth mindset?, Growth Mindset for Parents](#)
- Create a quiet space and regular time for wider reading

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: English

Year 7		
Half term	Topic	Text
1	<i>Private Peaceful</i> by Michael Morpurgo	<ul style="list-style-type: none"> • Podcast: Michael Morpurgo Podcast (booksupnorth.com) • Other books by Morpurgo plus information about the author: Home - Michael Morpurgo Official Site • Other fiction books set during WW1: Top Ten / Children's and Young Adult Books Set During WWI – Pretty Books • Non-fiction reading: The teenage soldiers of World War One - BBC News • Joining up To Fight In The First World War Imperial War Museums (iwm.org.uk) • Hidden WWI: Teenagers At War - Rife Magazine • Documentary- A collection of interviews with World War One veterans and civilians filmed in the 1960s: BBC iPlayer - The Great War Interviews • Poetry: World War I: Poetry by Year by The Editors Poetry Foundation
2	Writing to Describe	<ul style="list-style-type: none"> • Guides: Descriptive writing - Descriptive Writing - Higher English Revision - BBC Bitesize • Describe.pdf (wjec.co.uk) • Supplementary Work-pack: CP-Eng-sample.pdf (hoddereducation.co.uk)
	World War 1 at Christmas	<ul style="list-style-type: none"> • Non-fiction reading: The Real Story Of The Christmas Truce Of 1914 Imperial War Museums (iwm.org.uk) • The Story of the WWI Christmas Truce History Smithsonian Magazine • Documentary: (85) The Christmas Truce in 1914 History - I Was There: The Great War Interviews - YouTube • (85) Silent Night: The Story Of The Christmas Truce WW1 Christmas Truce Timeline - YouTube • Poetry: Carol Ann Duffy: The Christmas Truce Stop the War (stopwar.org.uk)
3	<i>Boy</i> by Roald Dahl	<ul style="list-style-type: none"> • Podcast: Seriously... - Roald Dahl: In His Own Words - BBC Sounds • Non-fiction reading: The dark side of Roald Dahl - BBC Culture • To Olivia: The heartbreaking true story behind Roald Dahl movie BT TV • Roald Dahl Cardiff, Llandaff, Laugharne, Tenby Visit Wales • Roald Dahl's wonderful Wales: how growing up Welsh moulded the Anglo-Norwegian writer (theconversation.com) • Roald Dahl: A Norwegian Lifestyle Literary Traveler • Documentary: (85) The Marvellous World of Roald Dahl - BBC Documentary 2016 - YouTube • Books: Dahl, Roald. <i>Going Solo</i>. New York: Farrar, Straus, 1986. • Dahl, Roald. <i>The Wonderful Story of Henry Sugar and Six More</i>. New York: Knopf, 1977. • Roald Dahl books list • Roald Dahl Facts • Website: Roald Dahl Fans – Fan site for author Roald Dahl (1916-1990)

4	Letter writing	<ul style="list-style-type: none"> • Guides: How to write a formal letter for KS3 English students - BBC Bitesize • Functional Skills: Writing a Formal Letter - Wakelet • Supplementary work-pack: Letter writing task sheets Skillsworkshop
	Environment in the global world	<ul style="list-style-type: none"> • BBC documentary: Drowning in Plastic - Watch Free Online (documentarymania.com) • Non-fiction reading: Plans unveiled to ban single-use plastics - GOV.UK (www.gov.uk) • Fact Sheet: Single Use Plastics - Earth Day • Our meat obsession is destroying the planet – the solution is to change how we see animals (theconversation.com) • What can I do to stop climate change? Greenpeace UK • What can I do to stop climate change? Friends of the Earth • Documentaries about other environmental issues: <i>Seaspiracy</i>, Netflix; <i>Cowspiracy</i>, Netflix
5	Performance Poetry	<ul style="list-style-type: none"> • Video clip: English Language KS3/KS4: Music in Performance Poetry - BBC Teach • Websites: Young Poets Network (poetrysociety.org.uk) • Watch : Apples and Snakes • Competitions: Competitions – Young Poets Network (poetrysociety.org.uk) • Examples: 20 classic poems for performance (booktrust.org.uk)
	Shakespeare	<ul style="list-style-type: none"> • Websites: William Shakespeare Biography • The complete works of Shakespeare: The Complete Works of William Shakespeare (mit.edu) • Watch Shakespeare plays online: Where to Watch EVERY Shakespeare Play The Mary Sue • Non-fiction reading: Shakespeare - KS3 English - BBC Bitesize • Shakespedia (shakespeare.org.uk) • Video clips: (85) Introducing Shakespeare i.am.Will Shakespeare BBC Teach - YouTube • (85) Shakespeare's Theatre i.am.Will Shakespeare BBC Teach - YouTube • (85) Shakespeare's World i.am.Will Shakespeare BBC Teach - YouTube • (85) Insults by Shakespeare - YouTube • (85) Sensational Shakespeare All about Shakespeare! Horrible Histories - YouTube • Link to previous learning: (85) Hip-Hop & Shakespeare? Akala at TEDxAldeburgh - YouTube • Books: Go and see Mrs Hubbard in the Learning Hub- we have many plays in their original form, abridged and in graphic novels and comics • Podcasts: Stories inspired by some of Shakespeare's plays: Shakespeare Retold (podcast) - School Radio Listen Notes
6	19 th Century fictional characters	<ul style="list-style-type: none"> • Fiction: <i>Jane Eyre</i> by Charlotte Bronte • <i>Silas Marner</i> by George Elliot • <i>Tess of the D'Urbervilles</i> by Thomas Hardy • <i>Robinson Crusoe</i> by Daniel Defoe • Websites: Jane Austen Centre and Jane Austen Online Gift Shop – JaneAusten.co.uk • Charlotte Brontë Bronte Parsonage Museum • George Eliot Archive - Home · George Eliot Archive

		<ul style="list-style-type: none"> • The Thomas Hardy Society • Podcast: Listen to our brand new podcast series all about Victorian jobs! - Fun Kids - the UK's children's radio station (funkidslive.com) • Documentaries: Documentaries To Watch If You're Interested In... The Victorian Era - Filmhounds Magazine
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Year 8		
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Half term	Topic	Text
1	<i>Animal Farm</i> by George Orwell	<ul style="list-style-type: none"> • Books: 1984 by George Orwell • Dystopian fiction: The Hunger Games by Suzanne Collins • Uglies by Scott Westerfield • The Maze Runner by James Dashner • Websites: The Orwell Foundation • Websites and Other Resources - Dystopia for YA Readers - LibGuides at Indiana University-Purdue University Indianapolis- LIS Site • Documentaries: Parental Guidance recommended: The 10 Best Documentaries About the Future Highsnobiety • Non-fiction reading: <i>Artificial Intelligence: Building Smarter Machines</i> by Stephanie Sammartino McPherson • Racial Profiling by Marie Behnke
2	Narrative writing	<ul style="list-style-type: none"> • Websites: Writing Skills - Creative and narrative writing - BBC Bitesize • Narrative Writing: How to Understand and Master It (self-publishingschool.com) • 111 Narrative Writing Prompts (Awesomely Clever Prompts) (authority.pub) • Enrichment club: Mrs Walker's Carnegie Book Club • Podcasts: Goosebuds is a podcast looking into the work of RL Stine and the Goosebumps books: Goosebuds (libsyn.com) • Audible is a paid subscription service to listen to fiction, nonfiction and podcasts. It's an amazing way to read. YouTube also has many audio books for free.
3	<i>Adrian Mole</i> by Sue Townsend	<ul style="list-style-type: none"> • Other works by Townsend: Sue Townsend - Book Series In Order • Readalikes: Angus, Thongs and Full-Frontal Snogging by Louise Rennison • The True and Outstanding Adventure of The Hunt Sisters by Elisabeth Robinson • Non-fiction: The Diary of Young Girl by Anne Frank • My Fat, Mad Teenage Diary by Rae Earl • Watch: (148) The Secret Diary of Adrian Mole Episode 1 - YouTube • Documentary: (148) The Secret Life Of Sue Townsend - YouTube • Podcast: Once Upon A Time: A Storytelling Podcast: "The Secret Diary of Adrian Mole, Age 13 3/4" with Luke Blaylock on Apple Podcasts A retelling of the story- comedy
4	Speech Writing	<ul style="list-style-type: none"> • Nonfiction: 100 Speeches that roused the world by Colin Salter • Speak Up!: Speeches by young people to empower and inspire

		<ul style="list-style-type: none"> • Websites: How to write a speech for KS3 English students - BBC Bitesize • The Top 10 Famous Speeches That Stand the Test of Time The Manual • 21 Uplifting and Powerful Famous Speeches That You Can't Miss - Lifehack • Videos: Youtube has many memorable speeches for free: <ul style="list-style-type: none"> ○ Martin Luther King - I Have A Dream Speech - August 28, 1963 - YouTube ○ WE SHALL NEVER SURRENDER speech by Winston Churchill (We Shall Fight on the Beaches) - YouTube ○ C-SPAN: Barack Obama Speech at 2004 DNC Convention - YouTube
5	<i>Pygmalion</i> by George Bernard Shaw	<ul style="list-style-type: none"> • Nonfiction reading: The Flowergirls of 1851 Spitalfields Life • What does your accent say about you? - BBC Future • Does your accent make you sound smarter? - BBC Worklife • YouGov ranked the best and worst accents in the British Isles and it's sparked debate indy100 • Websites: Dictionary of Victorian London - Victorian History - 19th Century London - Social History • Theatre in the 19th century The British Library (bl.uk) • 'Dirty Old London': A History Of The Victorians' Infamous Filth : NPR • The Greatest 19th Century Playwrights (thefamouspeople.com) • 19th Century fiction: Dr Jekyll and Mr Hyde by Robert Louis Stevenson • Little Women by Louisa May Alcott • Alice's Adventures in Wonderland, by Lewis Carrol
6	Poetry from difficult cultures	<ul style="list-style-type: none"> • More poems: Edward Kamau Brathwaite: Limbo • 'Nothing's Changed' by Tatamkhulu Afrika • 'Search for my Tongue' by Sujata Bhatt • 'Half Caste' by John Agard • 'Blessing' by Imtiaz Dharker • 'Flag' by John Agard • 'Night of the Scorpion' by Nissim Ezekie • Websites: Poems From Other Cultures & Traditions Revision World • Heritage and Identity: Poems for Teens Academy of American Poets • Lonely Planet Travel Guides & Travel Information - Lonely Planet • Video: BBC GCSE Bitesize Revision - English - Poetry from Different Cultures (2003) - YouTube • Podcast: World of Wonder on Apple Podcasts

Year 9

Half term	Topic	Text
1	<i>Of Mice and Men</i> by John Steinbeck	<ul style="list-style-type: none"> • Other novels by John Steinbeck: <i>The Pearl</i>; <i>Grapes of Wrath</i>; <i>East of Eden</i> • Websites: The American Dream in the 1920s & 30s - Cultural History of the United States (weebly.com) • The Great Depression, 1929-1933 - CCEA - GCSE History Revision - CCEA - BBC Bitesize • Fiction: <i>The Great Gatsby</i> by F.Scott Fitzgerald • Non-fiction reading: <i>Bonnie and Clyde</i> by Karen Blumenthal • <i>We Should All Be Feminists</i> by Chimamanda Ngozi Adichie • "Dust Bowl Diary" by Ann Marie Low • The Narrative of the Life of Frederick Douglass • Graphic book non-fiction: <i>The Great American Dust Bowl</i> by Don Brown • Videos: (162) Great Depression, What Was Life Actually Like - YouTube • (162) Weird Foods People Ate to Get Through the Great Depression - YouTube • Documentary: (162) John Steinbeck documentary - YouTube
2	Narrative writing	<p>Recommended reads:</p> <ul style="list-style-type: none"> • <i>The Fault in Our Stars</i> by John Green • <i>The Book Thief</i> by Markus Zusak • <i>Witch Child</i> by Celia Rees • <i>The Turn of the Screw</i> by Henry James • <i>THE BOX OF DEMONS</i> BY DANIEL WHELAN
3	<i>The 57 Bus: A True Story of Two Teenagers and the Crime That Changed Their Lives</i> by Dashka Slater	<ul style="list-style-type: none"> • Website: The 57 Bus Dashka Slater • Articles by Dashka Slater: Articles Dashka Slater • Podcasts: Episode 65: Dashka Slater On Turning News Into Inspiration - The Writers Grotto (sfgrotto.org) • Dashka Slater (bookpage.com) • On the 57 bus, a true-crime story of gender, race, class, and growing up KALW • Nonfiction articles: This Book Will Challenge Everything You Thought You Knew About Hate Crimes – Mother Jones • Should Schools Teach LGBT Tolerance? by Samuel Hutchinson Age of Awareness Medium • What is a race hate crime? - CBBC Newsround • The hidden truth behind race crimes in Britain Race The Guardian • Non-fiction reading: <i>Black Birds in the Sky</i> by Brandy Colbert • Graphic book non-fiction: <i>Almost American Girl</i> by Robin Ha
4	Article writing	<ul style="list-style-type: none"> • Places to read articles: • Resources Topical Talk (economistfoundation.org) • Homepage - The Day • https://www.bbc.co.uk/newsround • Twinkl NewsRoom Latest Kid News Articles News Report For Children • The Week Junior Newsroom The Week Junior Schools

5	Shakespeare: <i>Macbeth</i>	<ul style="list-style-type: none"> • Articles and work pack: Microsoft Word - MACBETH WIDER READING BOOKLET (wordpress.com) • British-Library-Extracts-on-Macbeth.pdf (alderbrookschoo.co.uk)
6	Inspirational Figures	<ul style="list-style-type: none"> • Non-fiction reading: <i>A Thousand Sisters</i> by Elizabeth Wein • <i>THE BELOVED WORLD OF SONIA SOTOMAYOR</i> BY SONIA SOTOMAYOR • <i>CLAUDETTE COLVIN: TWICE TOWARD JUSTICE</i> BY PHILIP HOOSE • <i>QUEER, THERE, AND EVERYWHERE</i> BY SARAH PRAGER • <i>RADIOACTIVE: HOW IRÈNE CURIE AND LISE MEITNER REVOLUTIONIZED SCIENCE AND CHANGED THE WORLD</i> BY WINIFRED CONKLING

Year 10 and 11

Topic	Text
<i>Blood Brothers</i> by Willy Russell	<ul style="list-style-type: none"> • Blog: Why I love...Exploring Blood Brothers for our highest ability students – susansenglish (wordpress.com) • Guide and work pack: Microsoft Word - Blood Brothers Course Booklet.docx (yourfavouriteteacher.com) • Lit charts: Study Guide - Lit Chart - Blood Brothers.pdf (whitbyhigh.org) • Copy of the play: Blood brothers (1).pdf (arkelvinacademy.org) • Context work: Microsoft Word - Blood Brothers revision booklet NEW (unfinished).doc (tgacademy.org.uk) • Documentaries: (188) Liverpool .Our Liverpool Home (1978) - YouTube • (188) The History of Liverpool (Full Documentary) - YouTube • Facing Redundancy 1980s UK British Industry What next? TV Eye 1981 - YouTube <p>Other works by Willy Russell:</p> <ul style="list-style-type: none"> • <i>Our Day Out</i> (made-for-TV film 1976, musical stage version, 2010) • <i>Educating Rita</i> (play 1980, film 1983) • <i>Shirley Valentine</i> (play 1986, film 1989) • <i>Terraces</i> (BBC TV film 1993) • <i>The Wrong Boy</i> (first novel, 2000) • <i>Hoovering the Moon</i> (music album, 2003)
<i>A Christmas Carol</i> Charles Dickens	<ul style="list-style-type: none"> • Articles and work pack: Microsoft Word - ACC WIDER READING BOOKLET (wordpress.com) • Articles: How did A Christmas Carol come to be? - BBC Culture • Malthusianism - Wikipedia • A Christmas Carol by Charles Dickens Charles Dickens Info • Spectral pleasures Books The Guardian • A Christmas Carol is not cosy, and its angry message should still haunt us Charles Dickens The Guardian

	<ul style="list-style-type: none"> • Charles Dickens' "A Christmas Carol" Told Uncomfortable Truths About Victorian Society, But Does it Have Anything to Teach Us Today? - Oxford Royale Academy (oxford-royale.com) • Videos: Dickens the performer The British Library (bl.uk) • (188) Why should you read Charles Dickens? - Iseult Gillespie - YouTube • Documentaries: The Victorian Slum, BBC- The Victorian Slum BBC S01E01 The1860s part 1/2 - video Dailymotion • (188) Charles Dickens: The Greatest Victorian Novelist - YouTube • Recommended reads: What to Read After... A Christmas Carol BookTrust • Film: <i>The Man Who Invented Christmas</i> A story of Dickens and how he came to write <i>A Christmas Carol</i> • Other works by Dickens: Charles Dickens bibliography - Wikipedia 		
<p><i>Romeo and Juliet</i> by William Shakespeare</p>	<ul style="list-style-type: none"> • Articles: Wider-Reading-for-Romeo-and-Juliet.pdf (douglaswise.co.uk) • Wider Reading – Drama: 'Romeo and Juliet' William Shakespeare Chloe Watson English Literature (wordpress.com) • Work booklet context: rj-aim-higher-booklet.pdf (wordpress.com) • If you liked <i>Romeo and Juliet</i>: If you liked Romeo & Juliet, try reading... – Awaken English • Other works by Shakespeare: Shakespeare Folger Shakespeare Library • Documentaries: (188) William Shakespeare: The Greatest Playwright - YouTube • What was life like in the court of Elizabeth I? History - Elizabethan England - YouTube • Films: Recommended watch (closest to actual text): Franco Zeffirelli's <i>Romeo and Juliet</i> (1968) • Just for fun: Baz Luhrmann's <i>Romeo + Juliet</i> (1996) • Zombie romantic comedy <i>Warm Bodies</i> (2013) • Comedy- BBC Two - Upstart Crow • Romeo & Juliet (2013); 'traditional' adaptation of the play, with text adapted by Julian Fellowes • <i>Gnomeo & Juliet</i> (2011) • Narrative poetry: The Tragical History of Romeus and Juliet- Arthur Brooke The Tragical History of Romeus and Juliet - Arthur Brooke - Google Books • Biography: <i>Shakespeare-</i> Bill Bryson • Watch: Royal Shakespeare Company RSC 		
<p>Language: Fiction</p>	<p>Classics: Great Expectations / Charles Dickens War of the Worlds / The Time Machine / H G Wells The Three Musketeers / Alexandre Dumas The Lost World / Hound of the Baskervilles / Sir Arthur Conan Doyle The Lord of the Rings Trilogy / J R R Tolkien Iron Man / Ted Hughes Little Women / Louisa May Alcott Pride and Prejudice / Jane Austen On the Road / Jack Kerouac Robinson Crusoe / Daniel Defoe East of Eden / John Steinbeck</p>	<p>Crime & Mystery / Adventure The Curious Incident of the Dog in the Night-time / Mark Haddon Lionboy / Zizou Corder Girl Missing / Sophie McKenzie Hacker / Malorie Blackman Noughts and Crosses / Malorie Blackman</p> <p>Real Life Issues Crongton Knights / Alex Wheatle Terror Kid / Benjamin Zephaniah George / Alex Gino</p>	<p>Dystopian Fiction Dust / Hugh Howey The Giver / Lois Lowry The Day of the Triffids / John Wyndham Plague 99 / Jean Ure Divergent / Veronica Roth Dune / Frank Herbert Fahrenheit 451 / Ray Bradbury</p> <p>Fantasy City of Bones / Cassandra Clare His Dark Materials Trilogy / Philip Pullman</p>

	<p>Swallows and Amazons / Arthur Ransome To Kill a Mockingbird / Harper Lee Far from the Madding Crowd / Thomas Hardy The Great Gatsby / F. Scott Fitzgerald Lord of the Flies / William Golding An Inspector Calls / JB Priestly</p> <p>Science Fiction The Hitchhikers Guide to the Galaxy / Douglas Adams A Wrinkle in time / Madeleine L'Engle I, Robot / Isaac Asimov 2001 : A Space Odyssey / Arthur C Clarke</p> <p>History The Help / Kathryn Stockett Bird Song / Sebastian Faulks Maus / Art Spiegelman Name of the Rose / Umberto Eco Goodnight Mr Tom / Michelle Magorian Carrie's War / Nina Bawden Sweet Clarinet / James Riordan The Silver Sword / Ian Serraillier Coram Boy / Jamila Gavin The Kite Runner / Khaled Hosseini Catch-22 / Joseph Heller</p>	<p>THUG / Angie Thomas The Girl in the Broken Mirror / Savita Kalhan Run, Riot / Nikesh Shukla I am Thunder and I won't Keep Quiet / Muhammad Khan</p> <p>Animal Stories Watership Down / Richard Adams Blitzcat / Robert Westall Life of Pi / Yan Martel</p> <p>Horror Dracula / Bram Stoker Frankenstein / Mary Shelley The Woman in Black / Susan Hill</p> <p>Short Stories / Anthologies A Change is Gonna Come / Various Authors Proud / Various Authors The Thing around your Neck / Chimamanda Ngozi Adichie Love Hurts / Various Authors Smoke and Mirrors / Neil Gaiman</p>	<p>Game of Thrones / George RR Martin Wolf Brother / Michelle Paver The Wolves of Willoughby Chase / Joan Aiken The Spiderwick Chronicles / Tony Di Terlizzi & Holly Black Eragon / Christopher Paolini Coraline / Neil Gaiman Pet / Akwaeke Emezi</p> <p>Novels in Verse / Poetry Rebound / Kwame Alexander The Poet X / Elizabeth Acevedo Clap when you Land / Elizabeth Acevedo Long Way Down / Jason Reynolds A Poem for Every Day of the Year / Allie Esiri</p>
<p>Language: Non-fiction</p>	<ul style="list-style-type: none"> • Newspapers/news sites: www.bbc.co.uk • The Telegraph - Telegraph Online, Daily Telegraph, Sunday Telegraph - Telegraph • News The Independent Today's headlines and latest breaking news • inews.co.uk - For Open Minds • News, sport and opinion from the Guardian's UK edition The Guardian <p>High-Quality Non-Fiction books:</p> <ul style="list-style-type: none"> • <i>How Dare The Sun Rise</i> by Sandra Uwiringiyimana • <i>ALICE PAUL AND THE FIGHT FOR WOMEN'S RIGHTS: FROM THE VOTE TO THE EQUAL RIGHTS AMENDMENT</i> BY DEBORAH KOPS • <i>AMERICANIZED: REBEL WITHOUT A GREEN CARD</i> BY SARA SAEDI 		

	<ul style="list-style-type: none"> • <i>BLOOD, BULLETS, AND BONES: THE STORY OF FORENSIC SCIENCE</i> BY BRIDGET HEOS • <i>ENCHANTED AIR: TWO CULTURES, TWO WINGS</i> BY MARGARITA ENGLE • <i>GIRL CODE: GAMING, GOING VIRAL, AND GETTING IT DONE</i> BY ANDREA GONZALES AND SOPHIE HOUSER • <i>GIRL RISING</i> BY TONYA LEE STONE • <i>LAUGHING AT MY NIGHTMARE</i> BY SHANE BURCAW • <i>MAKE IT MESSY: MY PERFECTLY IMPERFECT LIFE</i> BY MARCUS SAMUELSSON • My Family and Other Animals / Gerald Durrell • I Am Malala / Malala Yousafzai
Spoken Language	<p>Videos: How I Overcame My Fear of Public Speaking Danish Dhamani TEDxKids@SMU - Bing video Bad Public Speaking Example 1 - Bing video How To Start Your Speech (3 excellent openings) - Bing video</p> <p>Websites: Famous Speeches: A List of the Greatest Speeches of All-Time (jamesclear.com) 21 Uplifting and Powerful Famous Speeches That You Can't Miss - Lifehack</p>
Anthology Poetry Unseen Poetry	<ul style="list-style-type: none"> • Rising Stars: New Young Voices in Poetry- Riya Chowdhury Elanor Chuah and Joe Manners • Rhythm and Poetry by Karl Nova • Red, Cherry Red by Jackie Kay • In Time of War (edited by Anne Harvey) • The Penguin Book of First World War Poetry • Scars Upon My Heart: Women’s Poetry and Verse of the First World War (edited by Catherine W. Reilly) • Up the Line to Death: War Poets, 1914-18 (edited by Brian Gardner) • HUGHES Ted Collected Poems of Ted Hughes • Crow What is the Truth? HUGHES Ted and HEANEY Seamus (editors) • The Rattle Bag HUGHES Ted and HEANEY Seamus (editors) • The School Bag ZEPHANIAH Benjamin Propa Propaganda Talking Turkeys Wicked World • Websites: The Poetry Society – Connecting you to the transformative power of poetry • Poetry Books The Guardian

**A-Level/Further
Education wider reading**

- And Still I Rise – Maya Angelou (Poetry)
- One Flew Over the Cuckoo’s Nest – Ken Kesey (Prose)
- Slaughterhouse Five – Kurt Vonnegut (Prose)
- Song of Solomon – Toni Morrison (Prose)
- The Bell Jar – Sylvia Plath (Prose)
- The World’s Wife – Carol Ann Duffy (Poetry)
- Top Girls – Caryl Churchill (Drama)
- The Glass Menagerie – Tennessee Williams (Drama)
- A Clockwork Orange – Anthony Burgess (Prose)
- The Great Gatsby – F. Scott Fitzgerald (Prose)
- Brighton Rock – Graham Greene (prose)
- Brave New World – Aldous Huxley (Prose)
- Non-fiction: Journeys to Impossible Places: In Life and Every Adventure by Simon Reeve (author)
- Non-fiction: The Salt Path (Paperback), Raynor Winn (author)
- Non-fiction: This is Going to Hurt: Secret Diaries of a Junior Doctor (Paperback) Adam Kay (author)
- Non-fiction: Shackleton (Paperback) Ranulph Fiennes (author)

What can students do to further develop their skills in this subject area?	
KS3	<ul style="list-style-type: none"> • Attend the Sparx afterschool club to complete independent learning tasks • Take a leading role in learning in lessons – contribute ideas and think critically about what you read and learn • Learning journeys describe what is coming up next – research and get ahead of the work to gain an advantage • Get involved with STEM activities when they are made available
KS4	<ul style="list-style-type: none"> • Volunteer to help at the Sparx afterschool club to mentor younger students • Take a leading role in learning in lessons – contribute ideas and think critically about what you read and learn • Learning journeys describe what is coming up next – research and get ahead of the work to gain an advantage • Attend afterschool revision sessions • Use assessment QLAs to revise and consolidate learning • Complete independent learning activities on Hegarty
What websites could students visit to support the curriculum?	
KS3	www.sparxmaths.com plus the sites listed below...
KS4	www.hegartymaths.com www.onmaths.com www.tutorful.co.uk www.mathedup.co.uk www.daydreameeducation.co.uk www.irevise.com www.examsolutions.net www.mathsgenie.co.uk www.gcsemathspastpapers.com www.brainscape.com www.mathpapa.com/algebra-calculator www.cram.com www.justmaths.co.uk
How can parents/carers help and what can be done at home?	
KS3	<ul style="list-style-type: none"> • Work through your child's Sparx homework with them • Encourage your child to complete the extra tasks available on Sparx • Ask questions about the content of maths lessons and ask your child to explain methods to you. • Take opportunities to ask 'What would happen if...?' questions or present brainteasers to encourage your child to be inquisitive and seek out answers. • Visit places of mathematical interest – for example Bletchley Park, Bank of England museum or The Royal Observatory • Talk to the older generation at home about how maths has changed over the years and discuss other methods for solving problems
KS4	<ul style="list-style-type: none"> • Help your child revise and discuss their QLA with them • Make a revision timetable and help them work through the tasks • Ask questions about the content of maths lessons and ask your child to explain methods to you. • Take opportunities to ask 'What would happen if...?' questions or present brainteasers to encourage your child to be inquisitive and seek out answers. • Visit places of mathematical interest – for example Bletchley Park, Bank of England museum or The Royal Observatory • Talk to the older generation at home about how maths has changed over the years and discuss other methods for solving problems • Encourage your child to attend afterschool activities

Title	Age	Blurb
The Boy Who Loved Math: The Improbable Life of Paul Erdős	Age 7+	Most people think of mathematicians as solitary, working away in isolation. And, it's true, many of them do. But Paul Erdős never followed the usual path. At the age of four, he could ask you when you were born and then calculate the number of seconds you had been alive in his head. But he didn't learn to butter his own bread until he turned twenty. Instead, he traveled around the world, from one mathematician to the next, collaborating on an astonishing number of publications. With a simple, lyrical text and richly layered illustrations, this is a beautiful introduction to the world of math and a fascinating look at the unique character traits that made "Uncle Paul" a great man.
Blockhead: The Life of Fibonacci	Age 7+	As a young boy in medieval Italy, Leonardo Fibonacci thought about numbers day and night. He was such a daydreamer that people called him a blockhead. When Leonardo grew up and traveled the world, he was inspired by the numbers used in different countries. Then he realized that many things in nature, from the number of petals on a flower to the spiral of a nautilus shell, seem to follow a certain pattern. The boy who was once teased for being a blockhead had discovered what came to be known as the Fibonacci Sequence!
Infinity and Me	Age 7+	Uma can't help feeling small when she peers up at the night sky. She begins to wonder about infinity. Is infinity a number that grows forever? Is it an endless racetrack? Could infinity be in an ice cream cone? Uma soon finds that the ways to think about this big idea may just be . . . infinite.
On a Beam of Light: A Story of Albert Einstein	Age 7+	Travel along with Einstein on a journey full of curiosity, laughter, and scientific discovery. Parents and children alike will appreciate this moving story of the powerful difference imagination can make in any life.
50 Mathematical Ideas You Really Need to Know by Tony Crilly	Age 11+	In this book, Professor Tony Crilly explains in 50 clear and concise essays the mathematical concepts - ancient and modern, theoretical and practical, everyday and esoteric - that allow us to understand and shape the world around us. Packed with diagrams, examples and anecdotes, this book is the perfect overview of this often daunting but always essential subject. For once, mathematics couldn't be simpler.
Can you Solve my Problems? by Alex Bellos	Age 11+	This book contains 125 of the world's best brainteasers from the last two millennia, taking us from ancient China to medieval Europe, Victorian England to modern-day Japan, with stories of espionage, mathematical breakthroughs and puzzling rivalries along the way. Some solutions rely on a touch of cunning, others call for creativity, others need mercilessly logical thought. All are guaranteed to sharpen your mind!
Snowflake Seashell Star by Alex Bellos and Edmund Harriss	Age 11+	This book is the first in a series of mathematical colouring books by Alex Bellos and mathematical artist, Edmund Harriss. It is full of intricate and divinely beautiful illustrations, using patterns such as loops, waves and spirals. Stretch your artistic talents and embrace mathematics' aesthetic and conceptual exquisiteness. In 80 glorious images, Alex will teach you how to convey the wonder of mathematics through colour and design. Snowflake, Seashell, Star is an incredible celebration of the overlaps between mathematics and art, learning and play, concentration and calm.
A Mathematical Pandora's Box by Brian Bolt	Age 11+	Through his own experience, Brian Bolt has discovered a worldwide interest in mathematical puzzles. Bolt not only uses them to stimulate creative thinking, but also to open up new areas of mathematics to the reader. This book contains 142 activities: in addition to puzzles, there are games, tricks, models and explanation of various phenomena. They range from number manipulation, through happy and amicable numbers, coin puzzles, picnicking bears and pentominoes, to building shapes with cubes. There is a detailed commentary at the end of the book, giving solutions and explanations, together with the occasional follow-up problem.
The Number Devil by Hans	Age 11+	The quirky and unusual story of a young boy who hates maths at school, but who discovers a new side to the subject when he meets an unusual mathematician in a dream. This book takes you on an adventure through creative mathematical thinking, with great illustrations along the way.

Magnus Enzensberger		
The Indisputable Existence of Santa Claus by Hannah Fry and Thomas Oléron Evans	Age 11+	How do you apply game theory to select who should be on your Christmas shopping list? Can you predict Her Majesty's Christmas Message? Will calculations show Santa is getting steadily thinner - shimmying up and down chimneys for a whole night - or fatter - as he tucks into a mince pie and a glass of sherry in billions of houses across the world? Full of diagrams, sketches and graphs, beautiful equations, Markov chains and matrices, this book brightens up the bleak midwinter with stockingfuls of mathematical marvels. Mathematics has never been merrier.
Aha! Insight & aha! Gotcha by Martin Gardner	Age 11+	Previously published separately, the two books aha! Gotcha and aha! Insight have been combined as a single volume. The aha! books, as they are referred to by fans of Martin Gardner, contain 144 wonderful puzzles from the reigning king of recreational mathematics. In this combined volume, you will find puzzles ranging over geometry, logic, probability, statistics, number, time, combinatorics, and word play. Gardner calls these puzzles aha! problems, that 'seem difficult, and indeed are difficult if you go about trying to solve them in traditional ways. But if you can free your mind from standard problem solving techniques, you may be receptive to an aha! reaction that leads immediately to a solution. Don't be discouraged if, at first, you have difficulty with these problems. After a while you will begin to catch the spirit of offbeat, nonlinear thinking, and you may be surprised to find your aha! ability improving.'
Entertaining Mathematical Puzzles by Martin Gardner	Age 11+	Only an elementary knowledge of math is needed to enjoy this entertaining compilation of brain-teasers. It includes a mixture of old and new riddles covering a variety of mathematical topics: money, speed, plane and solid geometry, probability, topology, tricky puzzles and more. Carefully explained solutions follow each problem.
My Best Mathematical and Logic Puzzles by Martin Gardner	Age 11+	Over a period of 25 years as author of the Mathematical Games column for Scientific American, Martin Gardner devoted a column every six months or so to short math problems or puzzles. This volume contains a rich selection of 70 of the best of these brain teasers, in some cases including references to new developments related to the puzzle. Now enthusiasts can challenge their solving skills and rattle their egos with such stimulating mind-benders as The Returning Explorer, The Mutilated Chessboard, Scrambled Box Tops, The Fork in the Road, Bronx vs. Brooklyn, Touching Cigarettes, and 64 other problems involving logic and basic math. Solutions are included.
The Thrilling Adventures of Lovelace and Babbage by Sydney Padua	Age 11+	In this book Sydney Padua transforms one of the most compelling scientific collaborations into a hilarious set of adventures, starring Ada Lovelace and Charles Babbage. This book presents a delightful alternate reality in which Lovelace and Babbage build the Difference Engine and use it to create runaway economic models, battle the scourge of spelling errors, explore the wider realms of mathematics and, of course, fight crime - for the sake of both London and science. Extremely funny and utterly unusual, this book comes complete with historical curiosities, extensive footnotes and never-before-seen diagrams of Babbage's mechanical, steam-powered computer. And ray guns.
The 'Uncle Albert' Series by Russell Stannard	Age 11+	A best selling science/adventure series, beginning with 'The Time and Space of Uncle Albert'. Uncle Albert and his intrepid niece, Gedanken, enter the dangerous and unknown world of a thought bubble. Their mission: to unlock the deep mysteries of Time and Space... Discover why you can't break the ultimate speed barrier, how to become older than your mother, how to put on weight without getting fat, and how to live forever without even knowing it. Other books in the series include: 'Black Holes and Uncle Albert' and 'Uncle Albert and the Quantum Quest'.
Professor Stewart's Cabinet of Mathematical	Age 11+	A selection of mathematical puzzles, stories, tricks and short articles - great to read all in one go, or to dip into. The content varies between simple logic puzzles to introductions to more advanced topics such as the Four Colour Theorem, which tells us that we can colour in any map using only four colours, so that no bordering countries have the same colour.

Curiosities by Ian Stewart		
Book of Curious & Interesting Mathematics by David Wells	Age 11+	A collection of strange mathematical facts and stories. This anthology covers a whole range of ages, maths and mathematicians, and includes probability paradoxes, jumbled Shakespearean sonnets, record-breaking monkeys and typewriters, and theories of big game hunting. Also featured are stories of people who looked for logical loopholes in the American Constitution or calmed their nerves with algebra.
Book of Curious & Interesting Puzzles by David Wells	Age 11+	This collection by best-selling author David Wells, a Cambridge math scholar and teacher, includes more than 560 puzzles, from the "mind sharpeners" of a medieval monk to the eitheenth-century Ladies' Diary, the Hindu Bhakshali manuscript, and riddles and popular rhymes. None require any mathematics beyond the most elementary algebra and geometry - and few require even that. Complete answers appear at the end.
Elastic Numbers by Daniel Griller	Age 11+	Beautifully crafted and immensely enjoyable, the problems in this book require minimal technical knowledge, being accessible to young secondary school pupils. However, there is an astonishing range in difficulty; while some of the problems are fairly straightforward, others are significantly tougher, with a great deal of ingenuity and clarity of thought needed to make progress. Whether you are a student preparing for a maths competition, an educational establishment seeking to supplement your problem solving resources, or an individual looking for a different sort of challenge, Elastic Numbers is a unique collection, and will push you to the very edge of your abilities.
Thinking Mathematically by Mason, Burton & Stacey	Age 11+	Thinking Mathematically is perfect for anyone who wants to develop their powers to think mathematically, whether at school, at university or just out of interest. This book is invaluable for anyone who wishes to promote mathematical thinking in others or for anyone who has always wondered what lies at the core of mathematics. Thinking Mathematically reveals the processes at the heart of mathematics and demonstrates how to encourage and develop them. Extremely practical, it involves the reader in questions so that subsequent discussions speak to immediate experience.
The Math Book by Clifford A Pickover	Age 12+	Mathematic's infinite mysteries and beauty unfold in this book. Beginning millions of years ago with ancient ant odometers and moving through time to our modern-day quest for new dimensions, prolific polymath Clifford Pickover covers 250 milestones in mathematical history. Among the numerous concepts readers will encounter as they dip into this inviting anthology: cicada-generated prime numbers, magic squares, the discovery of pi and calculus, and the butterfly effect. Each topic is presented in a lavishly illustrated spread, including formulas, fascinating facts about scientists' lives and real-world applications of the theorems.
Mathematics, Magic and Mystery by Martin Gardner	Age 12+	Famed puzzle expert Martin Gardner explains the mathematics behind a multitude of mystifying tricks: card tricks, stage "mind reading," coin and match tricks, counting out games, geometric dissections, etc. Each of these are actually demonstrations of probability, sets, number theory, topology and other braches of mathematics. No skill at sleight of hand is needed to perform the more than 500 tricks described in this book because mathematics guarantees their success.
Alex's Adventures in Numberland by Alex Bellos	Age 13+	The world of maths can seem mind-boggling, irrelevant and, sometimes, boring. This groundbreaking book reclaims maths from the geeks. Mathematical ideas underpin just about everything in our lives: from the surprising geometry of the 50p piece to how probability can help you win in any casino. In search of weird and wonderful mathematical phenomena, Alex Bellos travels across the globe and meets the world's fastest mental calculators in Germany and a startlingly numerate chimpanzee in Japan. Packed with fascinating, eye-opening anecdotes, Alex's Adventures in Numberland is an exhilarating cocktail of history, reportage and mathematical proofs that will leave you awestruck.

How Many Socks Make a Pair? by Rob Eastaway	Age 13+	Can maths be creative? This book sets out to prove that it can, through a selection of short articles on surprising maths in everyday life. Through lots of intriguing problems, involving card tricks, polar bears and, of course, socks, Rob Eastaway shows how maths can demonstrate its secret beauties in even the most mundane of everyday objects.
Why do Buses Come in Threes? by Rob Eastaway and Jeremy Wyndham	Age 13+	With a foreword by Tim Rice, this book will change the way you see the world. Why is it better to buy a lottery ticket on a Friday? Why are showers always too hot or too cold? And what's the connection between a rugby player taking a conversion and a tourist trying to get the best photograph of Nelson's Column? These and many other fascinating questions are answered in this entertaining and highly informative book, which is ideal for anyone wanting to remind themselves - or discover for the first time - that maths is relevant to almost everything we do. Dating, cooking, travelling by car, gambling and even life-saving techniques have links with intriguing mathematical problems, as you will find explained here. Whether you have a PhD in astrophysics or haven't touched a maths problem since your school days, this book will give you a fresh understanding of the world around you.
Flatterland by Ian Stewart	Age 13+	In 1884, Edwin A. Abbott published "Flatland" •; a brilliant novel about mathematics and philosophy that charmed and fascinated all of England. Now, Ian Stewart has written a fascinating, modern sequel to Abbott's book. Through larger-than-life characters and an inspired story line, "Flatterland" explores our present understanding of the shape and origins of the universe, the nature of space, time, and matter, as well as modern geometries and their applications.
Finding Moonshine: A Mathematician's Journey Through Symmetry by Marcus Du Sautoy	Age 13+	This book tells the story of one of the biggest adventures in mathematics: the search for symmetry. This is the story of how humankind has come to its understanding of the bizarre world of symmetry - a subject of fundamental significance to the way we interpret the world around us. Our eyes and minds are drawn to symmetrical objects, from the sphere to the swastika, from the pyramid to the pentagon. 'Symmetry' is all-pervasive: in chemistry the concept of symmetry explains the structure of crystals; in evolutionary biology, the natural world exploits symmetry in the fight for survival; symmetry and the breaking of symmetry are central to ideas in art, architecture and music; the mathematics of symmetry is even exploited in industry, for example to find efficient ways to store more music on a CD or to keep your mobile phone conversation from cracking up through interference.
Mathematics for the Curious by Peter Higgins	Age 13+	When do the hands of a clock coincide? How likely is it that two children in the same class will share a birthday? How do we calculate the volume of a doughnut? Mathematics for the Curious provides anyone interested in mathematics with a simple and entertaining account of what it can do. Author Peter Higgins gives clear explanations of the more mysterious features of childhood mathematics as well as novelties and connections that prove that mathematics can be enjoyable and full of surprises. Topics include: the truth about fractions, ten questions and their answers, and the golden ratio. Higgins poses entertaining puzzles and questions tempting the reader to ponder math problems with imagination instead of dread. Mathematics for the Curious is an accessible introduction to basic mathematics for beginning students and a lively refresher for adults.
Mathematics for the Imagination by Peter Higgins	Age 13+	Mathematics for the Imagination provides an accessible and entertaining investigation into mathematical problems in the world around us. From world navigation, family trees, and calendars to patterns, tessellations, and number tricks, this informative and fun book helps you to understand the maths behind real-life questions and rediscover your arithmetical mind. This is a highly involving book which encourages the reader to enter into the spirit of mathematical exploration.
Mathematics and the Physical World by Morris Kline	Age 13+	A stimulating account of development of basic mathematics from arithmetic, algebra, geometry and trigonometry, to calculus, differential equations and non-Euclidean geometries. Also describes how maths is used in optics, astronomy, motion under the law of gravitation, acoustics, electromagnetism, and other aspects of physics.

<p>The Monty Hall Problem: Beyond Closed Doors by Rob Deaves</p>	<p>Age 14+</p>	<p>This short book explores the Monty Hall dilemma, a well known mathematical puzzle. The original problem, the controversy surrounding it and its solution are discussed. Further, the boundaries of the problem are expanded to consider prior knowledge and host intention. This book should be of interest to those who enjoy problem solving.</p>
<p>The Language of Mathematics by Keith Devlin</p>	<p>Age 14+</p>	<p>In The Language of Mathematics, award-winning author Keith Devlin reveals the vital role mathematics plays in our eternal quest to understand who we are and the world we live in. More than just the study of numbers, mathematics provides us with the eyes to recognize and describe the hidden patterns of life. Devlin shows us what keeps a jumbo jet in the air, explains how we can see and hear a football game on TV, allows us to predict the weather, the behavior of the stock market, and the outcome of elections. Far from a dry and esoteric subject, mathematics is a rich and living part of our culture. An exploration of an often woefully misunderstood subject, this book celebrates the simplicity, the precision, the purity, and the elegance of mathematics.</p>
<p>The Music of the Primes by Marcus Du Sautoy</p>	<p>Age 14+</p>	<p>How can one predict when the next prime number will occur? Is there a formula which could generate primes? These apparently simple questions have confounded mathematicians ever since the Ancient Greeks. In 1859, the brilliant German mathematician Bernhard Riemann put forward a hypothesis which finally seemed to reveal a magical harmony at work in the numerical landscape. The promise that these eternal, unchanging numbers would finally reveal their secret thrilled mathematicians around the world. Yet Riemann never publicly provided a proof for his hypothesis and his housekeeper burned most of his personal papers on his death. Whoever cracks Riemann's hypothesis will go down in history, for it has implications far beyond mathematics. In business, it plays a central role in security and e-commerce. In science, it brings together vastly different areas, with critical ramifications in Quantum Mechanics, Chaos Theory and the future of computing. Pioneers in each of these fields are racing to crack the code and a prize of \$1 million has been offered to the winner. As yet, it remains unsolved.</p>
<p>Journey Through Genius: The Great Theorems of Mathematics by William Dunham</p>	<p>Age 14+</p>	<p>In this book Dunham treats mathematical theorems as creative works of art. He places each theorem within its historical context and explores the very human and often turbulent life of the creator. He studies such great mathematicians as Archimedes, Gerolamo Cardano and Georg Cantor. He also provides step-by-step proofs for the theorems, each easily accessible to readers with no more than a knowledge of high school mathematics.</p>
<p>The Mathematical Universe: Alphabetical Journey Through the Great Proofs, Problems & Personalities by William Dunham</p>	<p>Age 14+</p>	<p>In this book, Dunham takes us through a tantalizing selection of the great proofs, notorious disputes, and intriguing unsolved mysteries of the mathematical universe. Subjects range from the golden age of Greek geometry to the furthest frontier of infinite series. Dunham explores more than five thousand years of mathematical history, digging into the earliest records in Egypt, Babylon, India, and China, and turning up surprising tales and tidbits from modern times. All along the way, Dunham portrays the great masters of mathematics at their work. In colorful anecdotes, the brilliant - often eccentric - luminaries chart the course of mathematical progress. This book is accessible to any reader with a basic knowledge of algebra and geometry. You will come away from this exhilarating book with a keen sense of the power and splendor of the magical mathematical world.</p>
<p>Chaos by James Gleick</p>	<p>Age 14+</p>	<p>Chaos is what happens when the behaviour of a system gets too complicated to predict; the most familiar example is the weather, which apparently cannot be forecast accurately more than five days ahead. This book tells the story so far in the study of this new field of Physics.</p>

<p>Euclid's Window: The Story of Geometry from Parallel Lines to Hyperspace by Leonard Mlodinow</p>	<p>Age 14+</p>	<p>Anyone who thought geometry was boring or dry should prepare to be amazed. Despite its worthy cover this book is exactly what its title says - a story - and the plot of this story involves life, death and revolutions of understanding and belief. It stars the some of the most famous names in history, from Euclid who laid the logical foundations, to Albert Einstein, who united space and time in a single non-Euclidean geometry. It offers an alternative history of mathematics, revealing how simple questions anyone might ask about space - in the living room or in some other galaxy - have been the hidden engines of the highest achievements in science and technology.</p>
<p>Closing the Gap: The Quest to Understand Prime Numbers by Vicky Neale</p>	<p>Age 14+</p>	<p>Prime numbers have intrigued, inspired and infuriated mathematicians for millennia. Every school student studies prime numbers and can appreciate their beauty, and yet mathematicians' difficulty with answering some seemingly simple questions about them reveals the depth and subtlety of prime numbers. In this book, Vicky Neale charts the recent progress towards proving the famous Twin Primes Conjecture, and the very different ways in which the breakthroughs have been made: a solo mathematician working in isolation and obscurity, and a large collaboration that is more public than any previous collaborative effort in mathematics. Interleaved with this story are highlights from a significantly older tale, going back two thousand years and more, of mathematicians' efforts to comprehend the beauty and unlock the mysteries of the prime numbers.</p>
<p>Fermat's Last Theorem by Simon Singh</p>	<p>Age 14+</p>	<p>The story of the solving of a puzzle that has confounded mathematicians since the 17th century. In 1963, a schoolboy browsing in his local library stumbled across the world's greatest mathematical problem: Fermat's Last Theorem, a puzzle that every child can understand but which has baffled mathematicians for over 300 years. Aged just ten, Andrew Wiles dreamed that he would crack it. Wiles's lifelong obsession with a seemingly simple challenge set by a long-dead Frenchman is an emotional tale of sacrifice and extraordinary determination. In the end, Wiles was forced to work in secrecy and isolation for seven years, harnessing all the power of modern maths to achieve his childhood dream. Many before him had tried and failed, including a 18-century philanderer who was killed in a duel. An 18-century Frenchwoman made a major breakthrough in solving the riddle, but she had to attend maths lectures at the Ecole Polytechnique disguised as a man since women were forbidden entry to the school.</p>
<p>The Code Book by Simon Singh</p>	<p>Age 14+</p>	<p>The Code Book is a history of man's urge to uncover the secrets of codes, from Egyptian puzzles to modern day computer encryptions. As in Fermat's Last Theorem, Simon Singh brings life to an astonishing story of puzzles, codes, languages and riddles that reveals man's continual pursuit to disguise and uncover, and to work out the secret languages of others. Codes have influenced events throughout history, both in the stories of those who make them and those who break them. The betrayal of Mary Queen of Scots and the cracking of the enigma code that helped the Allies in World War II are major episodes in a continuing history of cryptography. In addition to stories of intrigue and warfare, Simon Singh also investigates other codes, the unravelling of genes and the rediscovery of ancient languages and most tantalisingly, the Beale ciphers, an unbroken code that could hold the key to a 20 million dollar treasure.</p>
<p>The Penguin Dictionary of Curious and Interesting Numbers by David Wells</p>	<p>Age 14+</p>	<p>Look up 1729 to see why it is 'among the most famous of all numbers'. Look up $0.7404 (= \pi^{18})$ to discover that this is the density of closely packed identical spheres in what is believed by many mathematicians (though it was at that time an unproven hypothesis) and is known by all physicists and greengrocers to be the optimal packing. Look up Graham's number (the last one in the book), which is inconceivably big: even written as a tower of powers (999...) it would take up far more ink than could be made from all the atoms in the universe. It is an upper bound for a quantity in Ramsey theory whose actual value is believed to be about 6. A book to be dipped into at leisure.</p>

<p>Infinite Powers by Steven Strogatz</p>	<p>Age 14+</p>	<p>Calculus has a fierce reputation as complicated, abstract and difficult, but Steven Strogatz tells the true story of its beauty and simplicity. Starting with the Ancient Greeks, calculus has tantalised and fascinated humanity for millenia. Its applications grew from teaching us how to determine the area of a circle with only sand and a stick to safely launching rockets into space. Without it, we wouldn't have mobile phones, TV, GPS, or ultrasound. This book explains the history of our relationship with calculus, and its relationship with infinity.</p>
<p>The Liar Paradox and the Towers of Hanoi: 10 Greatest Math Puzzles of All Time by Marcel Danesi</p>	<p>Age 14+</p>	<p>Ever since the Sphinx asked his legendary riddle of Oedipus, riddles, conundrums, and puzzles of all sizes have kept humankind perplexed and amused. The Liar Paradox and the Towers of Hanoi takes die-hard puzzle experts on a tour of the world's most enduringly intriguing braintwisters, from Königsberg's Bridges and the Hanoi Towers to Fibonacci's Rabbits, the Four Color Problem, and the Magic Square. Each chapter introduces the basic puzzle, discusses the mathematics behind it, and includes exercises and answers plus additional puzzles similar to the one under discussion. Here is a veritable kaleidoscope of puzzling labyrinths, maps, bridges, and optical illusions that will keep aficionados entertained for hours.</p>
<p>The Number Mysteries by Marcus du Sautoy</p>	<p>Age 14+</p>	<p>An exploration of surprising ways maths occurs in our everyday lives, centred around five famous unsolved problems in mathematics. Topics include how to detect an art forgery, winning strategies in Monopoly, and how to crack a code. Sprinkled with games and links to interactive online content so you can try out some of the ideas for yourself!</p>
<p>Things to Make and Do in the Fourth Dimension by Matt Parker</p>	<p>Age 14+</p>	<p>This is the complete guide to exploring the fascinating world of maths you were never told about at school. Stand-up comedian and mathematician Matt Parker uses bizarre Klein Bottles, unimaginably small pizza slices, knots no one can untie and computers built from dominoes to reveal some of the most exotic and fascinating ideas in mathematics. Starting with simple numbers and algebra, this book goes on to deal with inconceivably big numbers in more dimensions than you ever knew existed. And always with something for you to make or do along the way.</p>
<p>How to Cut a Cake: and Other Mathematical Conundrums by Ian Stewart</p>	<p>Age 14+</p>	<p>In this book are twenty more curious puzzles and fantastical mathematical stories from one of the world's most popular and accessible writers on mathematics. This is a strange world of never-ending chess games, empires on the moon, furious fireflies, and, of course, disputes over how best to cut a cake. Each chapter - with titles such as, "How to Play Poker By Post" and "Repealing the Law of Averages" - presents a fascinating mathematical puzzle that is challenging, fun, and introduces the reader to a significant mathematical problem in an engaging and witty way. Illustrated with clever and quirky cartoons, each tale will delight those who love puzzles and mathematical conundrums.</p>
<p>Games and Mathematics by David Wells</p>	<p>Age 14+</p>	<p>The appeal of games and puzzles is timeless and universal. In this book, David Wells explores the fascinating connections between games and mathematics, proving that mathematics is not just about tedious calculation but imagination, insight and intuition. The first part of the book introduces games, puzzles and mathematical recreations, including knight tours on a chessboard. The second part explains how thinking about playing games can mirror the thinking of a mathematician, using scientific investigation, tactics and strategy, and sharp observation. Finally the author considers game-like features found in a wide range of human behaviours, illuminating the role of mathematics and helping to explain why it exists at all. This thought-provoking book is perfect for anyone with a thirst for mathematics and its hidden beauty; a good high school grounding in mathematics is all the background that is required, and the puzzles and games will suit pupils from 14 years.</p>
<p>Mathematics: A Very Short Introduction by Timothy Gowers</p>	<p>Age 14+</p>	<p>Tim Gowers is a Fields Medalist (the Fields medal is the mathematical equivalent of the Nobel prize), so it is not at all surprising that what he writes is worth reading. What is surprising is the ease and charm of his writing. He touches lightly many areas of mathematics, some that will be familiar (Pythagoras) and some that may not be (manifolds) and has something illuminating to say about all of them.</p>

Excursions in Geometry by C. Stanley Ogilvy	Age 14+	In this book, Professor Ogilvy demonstrates the mathematical challenge and satisfaction to be had from geometry, the only requirement being two simple implements (straight-edge and compass) and a little thought. Topics including harmonic division and Apollonian circles, inversive geometry, the hexlet, conic sections, projective geometry, the Golden Section and angle trisection are addressed in a way that brings out the true intellectual excitement inherent in each. Also included are some unsolved problems of modern geometry.
Excursions in Mathematics by C. Stanley Ogilvy	Age 14+	This book offers a fascinating glimpse into the world of mathematics and mathematicians. It is designed for the reader who has no advanced mathematical background of special aptitude, but who wants to acquaint him or herself with the intellectually stimulating and aesthetically satisfying aspects of the subject. After illuminating the role of the mathematician and dispelling several popular misconceptions about the nature of mathematics, Professor Ogilvy takes you on a lively tour of the four basic branches of the subject: number theory, algebra, geometry and analysis. Focusing on the interesting, and even amusing, aspects of mathematics, he points out the interconnections between the branches and presents mathematics as a vital subject whose frontiers are continually expanding. Many illustrations and examples illuminate classic aspects of the subject as well as recent advances.
Excursions in Number Theory by C. Stanley Ogilvy and John Anderson	Age 14+	This delightful volume, by two well-known mathematicians, invites readers to join a challenging expedition into the mystery and magic of number theory. No special training is needed - just high school mathematics, a fondness for figures and an inquisitive mind. Beginning with familiar notions, the authors skillfully transport the reader to higher realms of mathematics, developing the necessary concepts along the way. Included are thorough discussions of prime numbers, number patterns, irrationals and iterations and calculating prodigies, among other topics.
Q.E.D. - Beauty in Mathematical Proof by Burkard Polster	Age 14+	Which famous proof did Archimedes inscribe on his tombstone? How and why do knots make perfect pentagons? Have you ever seen a proof so completely that it is just obvious? In this delicious little book, top down-under mathemagician Dr. Polster presents many of the most visually intuitive and exciting proofs from the dusty annals of mathematical history. You can test your ability to follow the logic, leap into mathemagnosis and experience eureka-moment after eureka-moment.
How to Solve It by George Polya	Age 14+	A perennial bestseller by eminent mathematician G. Polya, How to Solve It will show anyone in any field how to think straight. In lucid and appealing prose, Polya reveals how the mathematical method of demonstrating a proof or finding an unknown can be of help in attacking any problem that can be "reasoned" out - from building a bridge to winning a game of anagrams. Generations of readers have relished Polya's deft - indeed, brilliant - instructions on stripping away irrelevancies and going straight to the heart of the problem.
The Joy of X: A Guided Tour of Mathematics from One to Infinity by Steven Strogatz	Age 14+	Maths is everywhere, often where we don't even realise. Award-winning professor Steven Strogatz acts as our guide as he takes us on a tour of numbers that - unbeknownst to the uninitiated - connect pop culture, literature, art, philosophy, current affairs, business and even every day life. In The Joy of X, Strogatz explains the great ideas of maths - from negative numbers to calculus, fat tails to infinity - with clarity, wit and insight. He is the maths teacher you never had and this book is perfect for the smart and curious, the expert and the beginner.
Problem-Solving Strategies In Mathematics: From Common Approaches To Exemplary Strategies by Alfred S Posamentier	Age 15+	This book introduces ten problem-solving strategies by first presenting the strategy and then applying it to problems in elementary mathematics. In so doing, the common less efficient approach is first mentioned and then the effective strategy is shown. Elementary mathematics is used so that the reader can focus on the strategy and not be distracted by some more sophisticated mathematics.

and Stephen Krulik		
1089 and All That: A Journey into Mathematics by David Acheson	Age 15+	David Acheson's extraordinary little book makes mathematics accessible to everyone. From very simple beginnings he takes us on a thrilling journey to some deep mathematical ideas. On the way, via Kepler and Newton, he explains what calculus really means, gives a brief history of pi, and even takes us to chaos theory and imaginary numbers. Every short chapter is carefully crafted to ensure that no one will get lost on the journey. Packed with puzzles and illustrated by world famous cartoonists, this is one of the most readable and imaginative books on mathematics ever written.
An Introduction to Mathematical Reasoning by Peter Eccles	Age 15+	The purpose of this book is to introduce the basic ideas of mathematical proof to students. The emphasis is on helping the reader in understanding and constructing proofs and writing clear mathematics. This is achieved by exploring set theory, combinatorics and number theory, topics which include many fundamental ideas which are part of the tool kit of any mathematician. This material illustrates how familiar ideas can be formulated rigorously, provides examples demonstrating a wide range of basic methods of proof, and includes some of the classic proofs.
Gödel, Escher, Bach: An Eternal Golden Braid by Douglas Hofstadter	Age 16+	Douglas Hofstadter's book is concerned directly with the nature of maps or links between formal systems. However, according to Hofstadter, the formal system that underlies all mental activity transcends the system that supports it. If life can grow out of the formal chemical substrate of the cell, if consciousness can emerge out of a formal system of firing neurons, then so too will computers attain human intelligence. Gödel, Escher, Bach is a wonderful exploration of fascinating ideas at the heart of cognitive science: meaning, reduction, recursion, and much more.
Mathematical Puzzles: A Connoisseur's Collection by Peter Winkler	Age 16+	Collected over several years by Peter Winkler, dozens of elegant, intriguing challenges are presented in this book. The answers are easy to explain, but without this book, devilishly hard to find. Creative reasoning is the key to these puzzles. No involved computation or higher mathematics is necessary, but your ability to construct a mathematical proof will be severely tested - even if you are a professional mathematician. For the truly adventurous, there is even a chapter on unsolved puzzles.
Mathematics for Human Flourishing by Francis Su	Age 16+	Can the study of mathematics enrich the heart as well as the mind? Francis Su explains how humans crave logic, beauty, truth and play, and that searching for these in mathematics is not only rewarding, but builds virtues in us that help us be better individuals and members of society. The book includes puzzles to draw everyone in to the enjoyment of mathematics, as part of his vision that mathematics should be shared by everyone.
What is Mathematics? by Richard Courant, Herbert Robbins and Ian Stewart	Age 16+	Written for beginners and scholars, for students and teachers, for philosophers and engineers, this book is a sparkling collection of mathematical gems that offers an entertaining and accessible portrait of the mathematical world. Covering everything from natural numbers and the number system to geometrical constructions and projective geometry, this fascinating survey allows readers to delve into mathematics as an organic whole rather than an empty drill in problem solving. With chapters largely independent of one another and sections that lead upward from basic to more advanced discussions, readers can easily pick and choose areas of particular interest without impairing their understanding of subsequent parts.
Towards Higher Mathematics: A Companion by Richard Earl	Age 16+	Containing a large and varied set of problems, this rich resource will allow students to stretch their mathematical abilities beyond the school syllabus, and bridge the gap to university-level mathematics. Many proofs are provided to better equip students for the transition to university. The author covers substantial extension material using the language of sixth-form mathematics, thus enabling students to understand the more complex material. There are over 1500 carefully graded exercises, with hints included in the text, and solutions available online. Historical and contextual asides highlight each area of mathematics and show how it has developed over time.

<p>The Art of the Infinite by Robert and Ellen Kaplan</p>	<p>Age 16+</p>	<p>This book unlocks the secrets of maths - revealing it to be our lost, native language, as much a part of us as the words we use every day. Number and form are the essence of our world: from the patterns of the stars to the pulses of the market, from the beats of our hearts to catching a ball or tying our shoelaces. Drawing on science, literature, history and philosophy, this book makes the rich patterns of maths brilliantly clear.</p>
<p>Algorithmic Puzzles by Anany & Maria Levitin</p>	<p>Age 16+</p>	<p>In this book, Anany and Maria Levitin use many classic brainteasers as well as newer examples from job interviews with major corporations to show readers how to apply analytical thinking to solve puzzles requiring well-defined procedures. The book's unique collection of puzzles is supplemented with carefully developed tutorials on algorithm design strategies and analysis techniques intended to walk the reader step-by-step through the various approaches to algorithmic problem solving. Mastery of these strategies - exhaustive search, backtracking, and divide-and-conquer, among others - will aid the reader in solving not only the puzzles contained in this book, but also others encountered in interviews, puzzle collections, and throughout everyday life. Each of the 150 puzzles contains hints and solutions, along with commentary on the puzzle's origins and solution methods. Readers with only middle school mathematics will develop their algorithmic problem-solving skills through puzzles at the elementary level, while seasoned puzzle solvers will enjoy the challenge of thinking through more difficult puzzles.</p>
<p>The Mathematics of Games and Gambling by Edward Packel</p>	<p>Age 16+</p>	<p>This book introduces and develops some of the important and beautiful elementary mathematics needed for rational analysis of various gambling and game activities. Most of the standard casino games (roulette, craps, blackjack, keno), some social games (backgammon, poker, bridge) and various other activities (state lotteries, horse racing) are treated in ways that bring out their mathematical aspects. The mathematics developed ranges from the predictable concepts of probability, expectation, and binomial coefficients to some less well-known ideas of elementary game theory. Game-related exercises are included and solutions to some appear at the end of the book.</p>
<p>The Great Mathematical Problems by Ian Stewart</p>	<p>Age 17+</p>	<p>There are some mathematical problems whose significance goes beyond the ordinary - like Fermat's Last Theorem or Goldbach's Conjecture - they are the enigmas which define mathematics. This book explains why these problems exist, why they matter, what drives mathematicians to incredible lengths to solve them and where they stand in the context of mathematics and science as a whole. It contains solved problems - like the Poincaré Conjecture, cracked by the eccentric genius Grigori Perelman, who refused academic honours and a million-dollar prize for his work, and problems which, like the Riemann Hypothesis, remain baffling after centuries. Stewart is the guide to this mysterious and exciting world, showing how modern mathematicians constantly rise to the challenges set by their predecessors, as the great mathematical problems of the past succumb to the new techniques and ideas of the present.</p>
<p>How to Study for a Mathematics Degree by Lara Alcock</p>	<p>Age 17+</p>	<p>Every year, thousands of students go to university to study mathematics. Many of these students are extremely intelligent and hardworking, but even the best will, at some point, struggle with the demands of making the transition to advanced mathematics. The mathematics shifts in focus from calculation to proof, so students are expected to interact with it in different ways. These changes need not be mysterious - mathematics education research has revealed many insights into the adjustments that are necessary - but they are not obvious and they do need explaining. This book translates these research-based insights into practical advice for a student audience. It covers every aspect of studying for a mathematics degree, from the most abstract intellectual challenges to the everyday business of interacting with lecturers and making good use of study time.</p>

How to Think Like a Mathematician by Kevin Houston	Age 17+	Looking for a head start in your undergraduate degree in mathematics? This friendly companion will ease your transition to real mathematical thinking. Working through the book you will develop an arsenal of techniques to help you unlock the meaning of definitions, theorems and proofs, solve problems, and write mathematics effectively. All the major methods of proof - direct method, cases, induction, contradiction and contrapositive - are featured. Concrete examples are used throughout, and you'll get plenty of practice on topics common to many courses such as divisors, Euclidean algorithms, modular arithmetic, equivalence relations, and injectivity and surjectivity of functions. With over 300 exercises to help you test your progress, you'll soon learn how to think like a mathematician.
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What can students do to further develop their skills in this subject area?	
KS3	<ul style="list-style-type: none"> • Take part in the after Academy Science Club for KS3 that extends the KS3 curriculum. • Take a leading role in learning in lessons – contribute ideas and think critically about what you read and learn. • Research tasks are often set for homework; extend focus on these to bring back to lessons in order to discuss and debate. • Read the news, in particular BBC articles that cover science; these can be found at www.bbc.co.uk/news/science_and_environment. • Listen to the news – have a news app and use it. When science is in the news, carry out additional research around the topic and what developments have recently been made in the science industry. • Take part in competitions where possible.
KS4	<ul style="list-style-type: none"> • Volunteer to help run the after Academy Science Club for KS3 that extends the KS3 curriculum. • Take a leading role in learning in lessons – contribute ideas and think critically about what you read and learn. • Research tasks are often set for homework; extend focus on these to bring back to lessons in order to discuss and debate. • Read the news, in particular BBC articles that cover science; these can be found at www.bbc.co.uk/news/science_and_environment. • Additional reading of articles in The New Scientist will extend learning. • Listen to the news – have a news app and use it. When science is in the news, carry out additional research around the topic and what developments have recently been made in the science industry. • Attend after-Academy revision sessions. • Take part in competitions where possible.
What websites could students visit to support the curriculum?	
KS3	<p> https://www.sciencejournalforkids.org/ www.natgeokids.com https://www.bbc.co.uk/bitesize www.sciencechannel.com/tv-shows/how-do-they-do-it https://ed.ted.com/lessons?category=science-technology https://www.bbc.co.uk/news/science and environment https://www.nature.com/ </p> <p>Watching television programmes such as Planet Earth in addition to documentaries about nuclear disasters/global warming. Watch Stargazing Live.</p>
KS4	<p> https://www.sciencejournalforkids.org/ https://www.gcsepod.com/ https://www.bbc.co.uk/bitesize www.s-cool.co.uk/gcse/chemistry www.bbc.co.uk/education www.rsc.org www.nationalgeographic.com/science www.youtube.com/user/thehealthcaretriage www.youtube.com/user/Kurzgesagt www.nuffieldfoundation.org/practical-biology www.sciencechannel.com/tv-shows/how-do-they-do-it https://ed.ted.com/lessons?category=science-technology https://royalsociety.org/ https://www.nhm.ac.uk/ https://www.bmj.com/ https://www.bbc.co.uk/news/science and environment https://www.nature.com/ </p> <p>Watching television programmes such as Planet Earth in addition to documentaries about nuclear disasters/global warming. Watch Stargazing Live.</p>

How can parents/carers help and what can be done at home?

<p>KS3</p>	<ul style="list-style-type: none"> • Ask questions about the content of Science lessons and ask your son or daughter to explain scientific concepts to you. • Take opportunities to ask 'What would happen if...?' questions or present brainteasers to encourage your son or daughter to be inquisitive and seek out answers. • Visit places of scientific interest – for example, the National Space Station at Leicester, Eureka and Magna at Sheffield, The Museum of Science and Industry Manchester, The Natural History Museum, The London Planetarium and The Science Museum London (where interactive workshops may be available). • Connect science with holiday activities - visiting zoos, farms, aquariums, discussing nature on a walk or tide patterns when on a beach. • National Trust locations: https://www.nationaltrust.org.uk/woolsthorpe-monor, or Jodrell Bank in Manchester. • Talk to the older generation at home about how science has changed over the years. • Refer to this website for further ideas: www.rigb.org.
<p>KS4</p>	<ul style="list-style-type: none"> • Ask questions about the content of Science lessons and ask your son or daughter to explain scientific concepts to you. • Take opportunities to ask 'What would happen if...?' questions or present brainteasers to encourage your son or daughter to be inquisitive and seek out answers. • Visit places of scientific interest – for example, the National Space Station at Leicester, The Museum of Science and Industry Manchester, The Natural History Museum and The Science Museum London (where interactive workshops may be available). • Visit National Trust locations: www.nationaltrust.org.uk/woolsthorpe-monor, or Jodrell Bank in Manchester. • Encourage your son or daughter to attend after-Academy revision sessions. • Talk to the older generation at home about how science has changed over the years.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Science

Year 7		
Half term	Topic	Text
1	Working Scientifically	<p>Books: Exploring Science: Working Scientifically The Science book: Big Ideas Simply Explained How to be good at science workbook</p> <p>Websites: https://www.rastrick.calderdale.sch.uk/wp-content/uploads/2020/09/Year-7-Working-Scientifically-working-from-home-booklet-1.pdf</p> <p>Videos: https://www.youtube.com/watch?v=wYKwzVDB-N0&list=PL9IouNCPbCxU3bKmUzQ4wvtRwS_n870G0 https://www.youtube.com/watch?v=MEIXRLcC6RA</p>
	Organisms (Biology)	<p>Podcast: https://open.spotify.com/episode/6OQPotyZR4uCv90nINGY5 https://open.spotify.com/episode/6g0VzSMKfNd6SU29iFsOv1 https://open.spotify.com/episode/6OQPotyZR4uCv90nINGY5</p> <p>Books: 100 Thing to know about the human body – various authors</p> <p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/t-cells_article.pdf</p> <p>Videos: https://www.youtube.com/watch?v=LNLz7mswPkQ https://www.youtube.com/watch?v=3haTJCOkyxA</p>
2	Matter (Chemistry)	<p>Videos: https://www.youtube.com/watch?v=qpZhc2Zn_Tl https://www.youtube.com/watch?v=XC1RxloV0Mo</p>
	Waves (Physics)	<p>Books: Introduction to the Physics of Waves – Tim Freearde</p> <p>Websites: https://www.rastrick.calderdale.sch.uk/wp-content/uploads/2020/09/Year-9-Waves-2-working-from-home-booklet-1.pdf</p> <p>Documentaries: Sound Waves: The Symphony of Physics: Part 1 – Making Sound - https://www.dailymotion.com/video/x60naop Sound Waves: The Symphony of Physics: Part 2 – Using Sound - https://www.dailymotion.com/video/x60nc8p</p> <p>Videos: https://www.youtube.com/watch?v=aCu4VRKMstA</p>

3	Energy (Physics)	<p>Podcast: https://open.spotify.com/episode/13hIVE8VLZgMUHiohaMVe3</p> <p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/wind-tree-article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2020/07/biomass_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2020/07/biomass_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/06/osmosis_article.pdf</p> <p>Websites: https://www.physicstutoronline.co.uk/gcsephysicsaga/energy-stores-and-transfers/</p> <p>Videos: https://www.youtube.com/watch?v=jo_IRDLLSNU https://www.youtube.com/watch?v=JGwcDCeYRYo</p>
	Reaction s (Chemistry)	<p>Websites: https://www.bbc.co.uk/bitesize/guides/zw6jh39/revision/3#:~:text=Chemical%20changes%20happen%20when%20chemical,a%20solid%20to%20a%20liquid.</p> <p>Videos: https://www.youtube.com/watch?v=yIJ2qnUOOwQ https://www.youtube.com/watch?v=vt8fB3MFzLk https://www.youtube.com/watch?v=IBjwMcHUyBY https://www.youtube.com/watch?v=2i5Lm7BMtpo</p>
4	Origins (Biology)	<p>Websites: https://www.bbc.co.uk/bitesize/topics/zybbkqt/articles/zvwb3j6</p> <p>Documentary: https://www.bbc.co.uk/iplayer/episode/b01qmd9v/life-on-earth-10-themes-and-variations</p> <p>Videos: https://www.youtube.com/watch?v=jUHokSPkzT8 https://www.youtube.com/watch?v=-ekRRuSa_UQ https://www.youtube.com/watch?v=vXrQ_FhZmos</p>
	British Science Week	<p>Books: Exploring Science: Working Scientifically The Science book: Big Ideas Simply Explained How to be good at science workbook</p> <p>Websites: https://collectionslibrary.crestawards.org/#tab_ethICKF5NwsMjQq8 https://www.britishscienceweek.org/app/uploads/2022/10/BSW23_tasterpack_secondary.pdf</p> <p>Videos: https://www.youtube.com/watch?v=fH5iLx_jCUk</p>
5	Electricity and Magnetism (Physics)	<p>Websites: https://www.google.com/url?sa=t&rct=j&q=&esrc=s&source=web&cd=&ved=2ahUKEwjOybOlwJn7AhWzmlwKHZdxDjMQFnoECA4QAQ&url=https%3A%2F%2Fwww.stem.org.uk%2Fsites%2Fdefault%2Ffiles%2Fpages%2Fdownloads%2FWorksheet-Magnetism-ks3.docx&usg=AOvVaw0sH-ggBaXYtkHnWxclzvnk</p> <p>Documentary: Shock and Awe: The Story of Electricity: https://www.youtube.com/watch?v=Gtp51eZkwol</p>

		<p>Videos: https://www.youtube.com/watch?v=79_SF5AZtzo</p>
Forces (Physics)		<p>Websites: https://www.haberdashersabrahamdarby.co.uk/wp-content/uploads/2017/10/KS3-physics-forces.pdf https://www.bbc.co.uk/bitesize/topics/z4brd2p/articles/zs3896f https://www.bbc.co.uk/bitesize/guides/zyytmp3/revision/1</p> <p>Videos: https://www.youtube.com/watch?v=WCPTKRAScgE https://www.youtube.com/watch?v=JsuN_dJd2Is</p>
Cycles and Interactions (Biology)		<p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/food-article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/veggie_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2018/12/Business_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/06/echolocation_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/global_fish_article_hs.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/global_fish_article_hs.pdf</p> <p>Documentaries: Our Planet (Netflix)</p> <p>Videos: https://www.youtube.com/watch?v=7AZCcf4Fv14</p>
6 Earth and Beyond (Chemistry)		<p>Podcasts: https://open.spotify.com/episode/3VZutrUcvYoLouufZUSLBz</p> <p>Websites: https://www.bbc.co.uk/bitesize/topics/z3fv4wx/articles/z9qpsk7#:~:text=The%20structure%20of%20the%20Earth,-The%20Earth%20is&text=The%20three%20layers%2C%20starting%20from,inner%20core%20and%20outer%20core</p> <p>Documentaries: Solar system: The secrets of the universe</p> <p>Videos: https://www.youtube.com/watch?v=libKVRa01L8 https://www.youtube.com/watch?v=Qd6nLM2QIWw https://www.youtube.com/watch?v=AgwSdQzN4H4</p>

Year 8		
Half term	Topic	Text
1	Organisms (Biology)	<p>Podcast: https://open.spotify.com/episode/6OQPotygzR4uCv90nINGY5 https://open.spotify.com/episode/3oQyj4UndhSx1xBDCwsRnv https://open.spotify.com/episode/7gsymv2ntvsSiyNaTlfnJJ https://open.spotify.com/episode/7ttq8W5GLpKpYA5N3WsBFU</p> <p>Journals:</p>

		https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/nutrition_physiology_article.pdf Websites: https://www.bbc.co.uk/bitesize/guides/zs9krwx/revision/2 Videos: https://www.youtube.com/watch?v=13H1urX3gxl
	Space Week	Podcasts: https://open.spotify.com/show/1qYTAxxwbVJ96784zUESrW Books: Unlocking the Universe – Stephen and Lucy Hawking See Inside the Solar System – Rosie Dickens Space: A children's encyclopaedia - DK Documentary: A New Era of Space Travel – DW - https://www.youtube.com/watch?v=P_GO2IS_yBQ
2	Matter (Chemistry)	Podcast: https://open.spotify.com/episode/6xMJW5a8txvjZ8DOoJ2g3d https://open.spotify.com/episode/5uUJCjZINF0qptRBU9m5YW https://open.spotify.com/episode/7MDLDXxHZ242nws71yoy4A Websites: https://www.bbc.co.uk/bitesize/topics/zv9nhcw Videos: https://www.youtube.com/watch?v=fPnwBITSmgU https://www.youtube.com/watch?v=ldS9roW7IzM
	Electricity and Magnetism (Physics)	Podcasts: https://open.spotify.com/episode/35RWmZ36u0bS5W2rp3FQQa https://open.spotify.com/episode/3Jn9OrTi9XUZ5PrQiREp4c https://open.spotify.com/episode/1iw2yqQrsezMDqeb9nh1IM https://open.spotify.com/episode/3UWIA2fNsO131XlnAXm2HS Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/wind-tree-article.pdf Websites: https://www.bbc.co.uk/bitesize/guides/z437hyc/revision/1 Videos: https://www.youtube.com/watch?v=8Z0jhQeYDUE https://www.youtube.com/watch?v=R3hdaLpq2AA https://www.youtube.com/watch?v=ZQurBlu35Fo https://www.youtube.com/watch?v=jNFXtjt5mul
3	Origins (Biology)	Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2022/07/gonads_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2017/06/voles_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/rhino_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/target_mpa_article.pdf

		https://www.sciencejournalforkids.org/wp-content/uploads/2021/08/falcon_article.pdf Documentaries: Extinction: The Facts – David Attenborough : https://www.bbc.co.uk/programmes/m000mn4n Videos: https://www.youtube.com/watch?v=7VM9YxmULuo https://www.youtube.com/watch?v=jphrpR9ffKA&t=111s
	Reactions (Chemistry)	Videos: https://www.youtube.com/watch?v=fwukX8Ec-Pg https://www.youtube.com/watch?v=0MBVIXufFbM
4	Energy (Physics)	Podcast: https://open.spotify.com/episode/13hIVE8VLZgMUHiohaMVe3 https://open.spotify.com/episode/6ShWqq02wOS8jrnzutGgt3 Videos: https://www.youtube.com/watch?v=e7IBZH7cpM https://www.youtube.com/watch?v=GxxTTorxfSE
	British Science Week	Books: Exploring Science: Working Scientifically The Science book: Big Ideas Simply Explained How to be good at science workbook Websites: https://collectionslibrary.crestawards.org/#tab_ethICKF5NwsMjQq8 https://www.britishscienceweek.org/app/uploads/2022/10/BSW23_tasterpack_secondary_.pdf Videos: https://www.youtube.com/watch?v=fH5iLx_jCUk
5	Earth and Beyond (Chemistry)	Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2021/07/legislation_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2017/12/hawaii_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/08/falcon_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2020/05/climate_ssa_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/recycle_article.pdf Videos: https://www.youtube.com/watch?v=l0h_-3M0Pso https://www.youtube.com/watch?v=WNWstCstODE https://www.youtube.com/watch?v=vniZR0u1X6c https://www.youtube.com/watch?v=oJAbATJCugs
	Cycles and Interaction (Biology)	Podcast: https://open.spotify.com/episode/1Rvi8v8ZyBozuolAMICBOE Websites: https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/zdqx2v4 Videos: https://www.youtube.com/watch?v=WsqP1O7388g

		https://www.youtube.com/watch?v=co0JdqUlycg&vl=en-GB
6	Forces (Physics)	<p>Websites: https://www.haberdashersabrahamdarby.co.uk/wp-content/uploads/2017/10/KS3-physics-forces.pdf https://www.bbc.co.uk/bitesize/topics/z4brd2p/articles/zs3896f https://www.bbc.co.uk/bitesize/guides/zyydmp3/revision/1</p> <p>Videos: https://www.youtube.com/watch?v=WCPTKRAScgE https://www.youtube.com/watch?v=JsuN_dJd2Is https://www.youtube.com/watch?v=iIPG3F2EfJ8</p>

Year 9

Half term	Topic	Text
1	Organisms (Biology)	<p>Podcast: https://open.spotify.com/episode/3nefd1eeMgQHMoFYK4v2aG https://open.spotify.com/episode/4bee6BfV2rp3r2t9CprOdB https://open.spotify.com/episode/10M2jQEdCRJ7QhGMdzq0z6 https://open.spotify.com/episode/1uRzpLSxWx5ePGgcGVCKvA https://open.spotify.com/episode/7el6GDqRBPuRHBZs56Q4Vs https://open.spotify.com/episode/2xqFLiIrtM0CfcHqtnkfuv https://open.spotify.com/episode/4j60X6yzPIGkvmdAET3JZT</p> <p>Books: The Body – Bill Bryson</p> <p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/t-cells_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/03/blastocyst_article.pdf</p> <p>Websites: https://www.healthline.com/health/stem-cell-research#types</p> <p>Videos: https://www.youtube.com/watch?v=AlSQEs694qY https://www.youtube.com/watch?v=GMBSU-2GK3E https://www.youtube.com/watch?v=y1DsaAzYamQ</p>
	Matter (Chemistry)	<p>Videos: https://www.youtube.com/watch?v=TYEYEIuTmGQ https://www.youtube.com/watch?v=sG6QoLxwIw4&t=0s https://www.youtube.com/watch?v=Rc2JBp91V7o https://www.youtube.com/watch?v=dZGDUKQa_6g https://www.youtube.com/watch?v=HT1zAPQIBAQ https://www.youtube.com/watch?v=m0Uj7mSC6HU</p>
2	Energy (Physics)	<p>Podcast: https://open.spotify.com/episode/6zeQ5CvN3a1Q5zjen8btym</p> <p>Websites:</p>

		https://orsted.co.uk/insights/expert-take/floating-wind-expertise-into-action Documentary: Harnessing the sun and wind: Inside our renewable energy future - https://www.youtube.com/watch?v=UeVfgiuZh9s Videos: https://www.youtube.com/watch?v=gj1tu8bTKjl https://www.youtube.com/watch?v=lcQAshOHYJg https://www.youtube.com/watch?v=rNS-W7k0jts https://www.youtube.com/watch?v=Hs5x0-IU2F4 https://www.youtube.com/watch?v=HAPmwu7byGM https://www.youtube.com/watch?v=SCg81A6kwo https://www.youtube.com/watch?v=MhEGS1zsApo https://www.youtube.com/watch?v=9W6S3FA-C6U
3	Cycles and Interactions (Biology)	Podcast: https://open.spotify.com/episode/1Rvi8v8ZyBozuolAMICBOE Websites: https://www.bbc.co.uk/bitesize/topics/zvrrd2p/articles/zdqx2v4 Videos: https://www.youtube.com/watch?v=WsqP1O7388g https://www.youtube.com/watch?v=co0JdqUlycg&vl=en-GB
	Matter (Chemistry)	Websites: https://www.bbc.co.uk/bitesize/guides/zt9s2nb/revision/2 Videos: https://www.youtube.com/watch?v=zI2vRwFKnHQ https://www.youtube.com/watch?v=UtZw9jflxXM https://www.youtube.com/watch?v=F_Y1-JieCrg https://www.youtube.com/watch?v=dftq9xGXcf8&list=PL9IouNCPbCxXTU7zSX4IvJDLrtCEmqEMU
4	Reactions (Chemistry)	Videos: https://www.youtube.com/watch?v=dstRL5xB0Sk
	British Science Week	Books: Exploring Science: Working Scientifically The Science book: Big Ideas Simply Explained How to be good at science workbook Websites: https://collectionslibrary.crestawards.org/#tab_ethICKF5NwsMjQq8 https://www.britishscienceweek.org/app/uploads/2022/10/BSW23_tasterpack_secondary_.pdf Videos: https://www.youtube.com/watch?v=fH5iLx_jCUk
5	Earth and Beyond (Chemistry)	Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2021/07/legislation_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2017/12/hawaii_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/08/falcon_article.pdf

		<p>https://www.sciencejournalforkids.org/wp-content/uploads/2020/05/climate_ssa_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/recycle_article.pdf</p> <p>Videos: https://www.youtube.com/watch?v=t1Z3GINldLA https://www.youtube.com/watch?v=gVI99ffm8Lk https://www.youtube.com/watch?v=E9eGzPx1Dg</p>
	Cycles and Interaction (Biology)	<p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/wild-bees_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/04/bumble_bee_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/08/bee_brains_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/bee_diet_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/bee-distance_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/pesticide_article.pdf</p> <p>Websites: https://www.bbc.co.uk/bitesize/guides/z83qcj6/revision/1</p> <p>Videos: https://www.youtube.com/watch?v=0mjafH5pVLA https://www.youtube.com/watch?v=IR2zllJuaD4 https://www.youtube.com/watch?v=2me1PjYk4sA</p>
6	Cycles and Interaction (Biology)	<p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2022/02/whales_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/02/cobenefits_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/03/pm2.5_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/10/lockdowns_article.pdf</p> <p>Documentaries: Seaspiracy (Netflix) Artifishal: The Fight to Save Wild Salmon - https://www.youtube.com/watch?v=XdNJOJAwT7I</p> <p>Videos: https://www.youtube.com/watch?v=LeH5FUKSPzU https://www.youtube.com/watch?v=6utMftGxual https://www.youtube.com/watch?v=urzpnjwazV0 https://www.youtube.com/watch?v=NFTSm3D2xrM</p>

Year 10 and 11

Topic	Text
Organisms (Biology)	<p>Podcast: Types of Cells - https://open.spotify.com/episode/3nefd1eeMgQHMoFYK4v2aG Cell Specialisation in Animals - https://open.spotify.com/episode/4bee6BfV2rp3r2t9CprOdB Cell Specialisation in Animals 2 - https://open.spotify.com/episode/10M2jQEdCRJ7QhGMdzq0z6 Cell Specialisation in Plants - https://open.spotify.com/episode/1uRzpLSxWx5ePGgcGVCKvA The Heart - https://open.spotify.com/episode/7el6GDqRBPuRHBZs56Q4Vs Blood Vessels - https://open.spotify.com/episode/2xqFLlirtMOCfcHqtnkfuv Blood Vessels 2 - https://open.spotify.com/episode/4j60X6yzPIGkvmdAET3JZT</p> <p>Books: The Body – Bill Bryson The Story of the Human Body: Evolution, Health and Disease – Daniel Lieberman Life Lessons from a Brain Surgeon – Dr Rahul Jandial Diagnosis: Solving the Most Baffling Medical Mysteries – Lisa Sanders</p> <p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/t-cells_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/03/blastocyst_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2020/07/covid_malaria_tb_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/Cholera_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/05/aDNA_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/polio_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/04/phage_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2018/06/HIV_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/Herd_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2020/11/Sludge_article.pdf</p> <p>Websites: https://www.healthline.com/health/stem-cell-research#types https://www.nhs.uk/conditions/stem-cell-transplant/ https://www.nhs.uk/conditions/</p> <p>Documentaries: The Human Body: the ultimate frontier of complexity - https://www.youtube.com/watch?v=5tmxPAkvoNY Rotten (Netflix)</p> <p>Videos: Blood Vessels - https://www.youtube.com/watch?v=AlSQEs694qY The Heart - https://www.youtube.com/watch?v=GMBsu-2GK3E Structure of the Heart - https://www.youtube.com/watch?v=y1DsaAzYamQ Cardiovascular Diseases - https://www.youtube.com/watch?v=5wSfCZESRHU Bacterial Structure and Functions - https://www.youtube.com/watch?v=b15Hy3jCPDs</p>

Microscopy - <https://www.youtube.com/watch?v=-dIBinUdeU>
 Cell Cycles, Chromosomes and Mitosis - <https://www.youtube.com/watch?v=RHyZVmbiA78&t=202s>
 Comparing Mitosis and Meiosis - <https://www.youtube.com/watch?v=IQJ4DBkCnco>
 Mitosis Vs Meiosis - <https://www.youtube.com/watch?v=bRcjB11hDCU>
 Stem Cells in Medicine – <https://www.youtube.com/watch?v=5IN2NrGBOYY>
 Active Transport - <https://www.youtube.com/watch?v=tM0bGaaQ2jY>
 Digestive Enzymes - <https://www.youtube.com/watch?v=VLK2wANjQm0>
 Effect of Temperature and pH on Enzymes - <https://www.youtube.com/watch?v=Rfvh4LIsEEM>
 Role of Bile in Lipid Digestion - <https://www.youtube.com/watch?v=GOcWiYai7d4>
 Communicable and Non-Communicable Diseases: <https://www.youtube.com/watch?v=QYWNXp36O48>

Origins (Biology)

Podcast:

Books:
 The Gene – Siddhartha Mukherjee
 The Selfish Gene – Richard Dawkins
 Unweaving the Rainbow – Richard Dawkins
 The Ancestor’s Tale – Richard Dawkins
 Y: The Descent of Men – Steve Jones
 Francis Crick: Discoverer of the Genetic Code – Matt Ridley

Journals:
https://www.sciencejournalforkids.org/wp-content/uploads/2022/07/gonads_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2017/06/voles_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/rhino_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/target_mpa_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2021/08/falcon_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2021/05/aDNA_article.pdf

Websites:
<https://www.bbc.co.uk/bitesize/guides/zgcxsbk/revision/1>

Documentaries:
 Extinction: The Facts – David Attenborough: <https://www.bbc.co.uk/programmes/m000mn4n>

Videos:
<https://www.youtube.com/watch?v=7VM9YxmULuo>
<https://www.youtube.com/watch?v=jphrpR9ffKA&t=111s>

Cycles and Interaction (Biology)

Journals:
https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/wild-bees_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2021/04/bumble_bee_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2022/08/bee_brains_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/bee_diet_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/bee-distance_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/pesticide_article.pdf
https://www.sciencejournalforkids.org/wp-content/uploads/2022/02/whales_article.pdf

	<p>https://www.sciencejournalforkids.org/wp-content/uploads/2022/02/cobenefits_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/03/pm2.5_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/10/lockdowns_article.pdf</p> <p>Websites: https://www.bbc.co.uk/bitesize/guides/z83qcj6/revision/1</p> <p>Documentaries: Seaspiracy (Netflix) Artifishal: The Fight to Save Wild Salmon - https://www.youtube.com/watch?v=XdNJ0JAwT7I</p> <p>Videos: https://www.youtube.com/watch?v=0mjafH5pVLA https://www.youtube.com/watch?v=IR2zllJuaD4 https://www.youtube.com/watch?v=2me1PjYk4sA https://www.youtube.com/watch?v=LeH5FUKSPzU https://www.youtube.com/watch?v=6utMftGxual https://www.youtube.com/watch?v=urzpnjwazV0 https://www.youtube.com/watch?v=NFTSm3D2xrM</p>
Matter (Chemistry)	<p>Websites: https://www.bbc.co.uk/bitesize/guides/zt9s2nb/revision/2</p> <p>Videos: https://www.youtube.com/watch?v=zI2vRwFKnHQ https://www.youtube.com/watch?v=UtZw9jflxXM https://www.youtube.com/watch?v=F_Y1-JieCrg https://www.youtube.com/watch?v=dftq9xGXcf8&list=PL9louNCPbCxXTU7zSX4IvJDLrtCEmqEMU https://www.youtube.com/watch?v=TYEYEIuTmGQ https://www.youtube.com/watch?v=sG6QoLxwIw4&t=0s https://www.youtube.com/watch?v=Rc2JBp91V7o https://www.youtube.com/watch?v=dZGDUKQa_6g https://www.youtube.com/watch?v=HT1zAPQIBAQ https://www.youtube.com/watch?v=m0Uj7mSC6HU</p>
Reactions (Chemistry)	<p>Videos: https://www.youtube.com/watch?v=dstRL5xB0Sk</p>
Earth and Beyond (Chemistry)	<p>Journals: https://www.sciencejournalforkids.org/wp-content/uploads/2021/07/legislation_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2017/12/hawaii_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2021/08/falcon_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2020/05/climate_ssa_article.pdf https://www.sciencejournalforkids.org/wp-content/uploads/2022/05/recycle_article.pdf</p> <p>Videos: https://www.youtube.com/watch?v=t1Z3GINldLA https://www.youtube.com/watch?v=gVl99ffm8Lk</p>

<https://www.youtube.com/watch?v=E9eGzPx1Dg>

Energy (Physics)

Podcast:

<https://open.spotify.com/episode/6zeQ5CvN3a1Q5zjen8btym>

Websites:

<https://orsted.co.uk/insights/expert-take/floating-wind-expertise-into-action>

Documentary:

Harnessing the sun and wind: Inside our renewable energy future - <https://www.youtube.com/watch?v=UeVfciuZh9s>

Videos:

<https://www.youtube.com/watch?v=gj1tu8bTKjl>

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

<https://www.youtube.com/watch?v=rNS-W7k0jts>

<https://www.youtube.com/watch?v=Hs5x0-IU2F4>

<https://www.youtube.com/watch?v=HAPmwu7byGM>

<https://www.youtube.com/watch?v=SCg81A6kww0>

<https://www.youtube.com/watch?v=MhEGS1zsApo>

<https://www.youtube.com/watch?v=9W6S3FA-C6U>

Electricity and Magnetism (Physics)

Podcasts:

<https://open.spotify.com/episode/35RWmZ36u0bS5W2rp3FQQa>

<https://open.spotify.com/episode/3Jn9OrTi9XUZ5PrQjREp4c>

<https://open.spotify.com/episode/1iw2yqQrsezMDqeb9nh1IM>

<https://open.spotify.com/episode/3UWIA2fNsO131XlnAXm2HS>

Journals:

<https://www.sciencejournalforkids.org/wp-content/uploads/2019/09/wind-tree-article.pdf>

Websites:

<https://www.bbc.co.uk/bitesize/guides/z437hyc/revision/1>

Videos:

<https://www.youtube.com/watch?v=8Z0jhQeYDUE>

<https://www.youtube.com/watch?v=R3hdaLpq2AA>

<https://www.youtube.com/watch?v=ZQurBlu35Fo>

<https://www.youtube.com/watch?v=jNFXtjt5mul>

Waves (Physics)

<p>A-Level/Further Education wider reading BIOLOGY</p>	<p>Reading:</p> <ul style="list-style-type: none"> • Nature and New Scientist magazines (articles are often posted on social media). • The Chemistry of Life - Steven Jones. • Language of the Genes and Almost Like a Whale - Steven Jones. • Genome - Matt Ridley. • The Wisdom of the Genes - Christopher Wills. • Darwin's Dangerous Idea - Daniel Dennett. • The Selfish Gene and The Extended Phenotype - Richard Dawkins. • Virolution - Frank Ryan. • Life Ascending - Nick Lane. • The Revenge of Gaia - James Lovelock. • 50 Genetic Ideas You Really Need to Know - Mark Henderson. • Zoobiquity - Barbara Natterson-Horowitz and Kathryn Bowers. • Creation: The Origin of Life - Adam Rutherford. • Maths Skills for A level Biology. <p>Websites:</p> <p>www.arkive.org www.ted.com https://ed.ted.com/lessons?category=science-technology www.thenakedscientists.com www.nuffieldfoundation.org/practical-biology www.youtube.com/user/Kurzgesagt www.youtube.com/user/thehealthcaretriage www.youtube.com/user/Kurzgesagt</p>
<p>A-Level/Further Education wider reading CHEMISTRY</p>	<p>Reading:</p> <ul style="list-style-type: none"> • New Scientist Magazine (articles are often posted on social media). • RSC Magazine (requires subscription to the RSC but is often only £1 for students). • Chemistry - Zach Brock. • Principles of Biochemistry - Abraham White, Philip Handler and Emil Smith. • Chemistry for Changing Times - John Hill, Terry McCreary and Doris Kolb. • Materials Science - E. N. Ramsden. • The Periodic Kingdom - P. W. Atkins. • The Disappearing Spoon - Sam Kean. • Maths Skills for A Level Chemistry. <p>Websites:</p> <p>www.ted.com www.thenakedscientists.com www.chemguide.co.uk</p>

	<p>www.physicsandmathstutor.com/chemistry-revision www.rsc.org</p>
<p>A-Level/Further Education wider reading PHYSICS</p>	<p>Reading:</p> <ul style="list-style-type: none"> • In Search of Schrodinger's Cat and In Search of the Multiverse - John Gribben. • The Physics of the Impossible - Michio Kaku. • Hyperspace Marauder - Lo Khan. • Surely You're Joking Mr Feynman - Richard Feynman. • The Trouble with Physics - Lee Smolin. • How to Teach Quantum Physics to your Dog - Chad Orzel. • 50 Physics Ideas You Really Need to Know - Joanne Baker. • About Time - Adam Frank. • The Particle at the End of the Universe - Sean Carroll. • The Quantum Universe - Brian Cox and Jeff Forshaw. • Maths Skills for A Level Physics. <p>Websites:</p> <p>www.isaacphysics.org www.physicsandmathstutor.com www.ted.com www.thenakedscientists.com www.rigb.org/christmas-lectures www.iop.org www.newscientist.com</p>
<p>Other Books</p>	<p>A Short History of Nearly Everything – Bill Bryson The Blind Watchmaker – Richard Dawkins The Magic of Reality – Richard Dawkins Bad Science – Ben Goldacre The Gene – Siddhartha Mukherjee Women in Science: 50 Fearless Pioneers Who Changed the World – Rachel Ignotofsky The Boy Who Harnessed the Wind – Bryan Mealer and William Kamkwamba The Universe in Your Hand: A Journey Through Space, Time, and Beyond – Christophe Galfard Fun Science: A Guide to Life, The Universe & Why Science Is So Awesome – Charlie McDonnell</p>



Humanities

Geography

History

What can students do to further develop their skills in this subject area?	
KS3	<ul style="list-style-type: none"> - Know where countries are – It is important to know where countries are & how their physical geography affects them. - Watch the news – Take an interest in global events & how they impact lessons - Collaborative learning – Fully engage in group tasks – Could you taking a leading role? - Challenge views/opinions in lessons – It is important to recognise different views. - Consider how events in lessons affect you, your community & the wider world. - Participate in the fieldwork trips each year – You will get to see what we have learnt in the classroom.
KS4	<ul style="list-style-type: none"> - Watch the news – Link global events to the case studies we have looked at. - Understand the physical geography of countries – how does it link to the human geography? - Deeper thinking – Link the topics we study together – how are some locations affected by different topics? Do hazards affect development? - Critical thinking – Can you justify your argument? Discuss concepts with other people to hear their views – Are you able to acknowledge why their views and justify it. - Know your case studies – You need to know the facts/figures for all of your case studies – this is the core information.
What websites could students visit to support the curriculum?	
KS3	<p>KS3 Geography - BBC Bitesize</p> <p>BBC One - Planet Earth</p> <p>Home - BBC News</p> <p>Globe (globe-game.com)</p>
KS4	<p>Home - Internet Geography</p> <p>Home - BBC News</p> <p>Globe (globe-game.com)</p>
How can parents/carers help and what can be done at home?	
KS3	<ul style="list-style-type: none"> - Encourage them to watch the news – Can they tell you something that has happened this week? - Support them to use Globe & know where different countries are located. - Ask them to link there topics together – how does what they are doing now link to last week, or half term? - Discuss how their actions affect other people – can they explain the social, economic & environmental impacts of their actions?
KS4	<ul style="list-style-type: none"> - Discuss the new with them – Make sure they are aware of current events around the world. - Quiz them on location Geography – Do they know where countries are? - Case studies – Test them on their knowledge of case studies – do they know the facts/figures. - Encourage them to complete their forms quiz homework each week. - Support them with revision. - Challenge their views – Get them to justify why they are correct/their point is valid.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: ____ Geography _____

Year 7		
Half term	Topic	Text
1	What is geography	PRISONERS OF GEOGRAPHY
2	What makes an environment extreme	Explorers – Nellie Huang
3	Is Africa Awakening	Africa is not a country Dipo Faloyin
4	Can Water Be Managed	When rivers run dry Fred Pearce
5	Is the Amazon Awesome	The Explorer Katherine Rundell
6	Perceptions of Geography	Factfulness Hand Rosling

Year 8		
Half term	Topic	Text
1	Hurricane Havoc	BBC News – Hurricanes
2	Climate Change	Ice Monster - David Walliams Greta Thunberg No one is too small to make a difference, our house is on fire speech. L8 National Geographic Climate change will make the UK new tourist destination
3	Challenges to Development	Factfulness Hand Rosling
4	Coasts collapsing	Pre- Release booklet (given in lessons)
5	Who wants to be a billionaire?	United Nations Development Programme. What are the sustainable development goals and why are they important.
6	Is business booming?	

Year 9		
Half term	Topic	Text
1	Is Asia advancing?	BBC News – Apple in China
2	Why is our earth restless?	Origins How the earth made us Lewis Dartnell Prisoners of Geography Tim Marshall pg280, 274
3	Can we close the development gap?	Factfulness Hans Rosling
4	What makes our weather wild?	Met Office Storm Bella Fact File
5	Do we have enough?	
6	What makes our rivers' rage?	When rivers run dry Fred Pearce

Year 10 and 11

Topic	Text
Paper 1 & Paper 2 All topics.	BBC News
	Pocket Revision Guides – Geography
	Clear Revise – Geography
	Geography: an integrated approach

A-Level/Further Education wider reading	Hodder – A guide to Geography Grotzinger understanding earth
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Subject: History

What can students do to further develop their skills in this subject area?	
KS3	<ul style="list-style-type: none"> Take a leading role in learning in lessons – collaborative learning will encourage and allow this. Research socio-economic factors that have influenced historical events, particularly local history. Read! For enjoyment and deepening your historical knowledge. It doesn't just have to be about your current history studies. Feel free to research and read about historical events beyond your current studies. Watch! There are plenty of documentaries and accurate films on Netflix, Youtube, Amazon etc. Engage in discussion about topics being explored in History lessons. Talk to adults and other students about the questions we ask in history. Don't be afraid to be curious and ask questions. Take responsibility for your own learning: Access Teams when you are absent to complete work- don't leave gaps.
KS4	<ul style="list-style-type: none"> Take a leading role in learning in lessons – collaborative learning will encourage and allow this. Take advantage of the resources in the revision guides and GCSE Pods. Practice exam questions. All history teachers will be happy to provide extra exam questions for you to practice and will mark them and discuss them with you. Research socio-economic factors that have influenced historical events, particularly local history. Attend after school intervention when appropriate. This is a great opportunity for you to improve your historical understanding. Watch! There are plenty of documentaries and accurate films on Netflix, Youtube, Amazon etc. Engage in discussion about topics being explored in History lessons. Talk to adults and other students about the questions we ask in history. Don't be afraid to be curious and ask questions <ul style="list-style-type: none"> Take responsibility for your own learning: Access Teams when you are absent to complete work- don't leave gaps.
What websites could students visit to support the curriculum?	
KS3	<p>https://www.youtube.com/c/OverSimplified</p> <p>https://www.youtube.com/show/SChYK1KpG8-Lct3TS2fUdlvw?season=1&sbp=CgEx – Horrible Histories</p> <p>https://www.history.org.uk/student/categories/history-resources-for-students</p>
KS4	<p>https://mmerevise.co.uk/gcse-history-revision/gcse-history-past-papers/edexcel-gcse-history-past-papers/</p> <p>https://www.gcsepod.com/</p> <p>https://www.youtube.com/c/OverSimplified</p> <p>https://www.history.org.uk/student/categories/history-resources-for-students</p>
How can parents/carers help and what can be done at home?	
<ul style="list-style-type: none"> Create a quiet space and regular time for wider reading Sit and read regularly with your son or daughter. You could use some of the books suggested or read historical articles online (a lot of these are free) Help them join the library and encourage wider reading Use the wider reading list to stretch and challenge them. Talk about what they are reading and ask questions. Watch documentaries relating to key themes explored in the academy and explore the ideas discussed. Encourage them to join an enrichment club Discuss the news and introduce an interesting fact or topic of the week. Alexa has a fact of the day. Discuss how present-day events link to the past events your child has been studying. Give children a broad range of experiences, e.g. visiting exhibitions, listening to music, eating different food. Attend RAG meetings when invited (KS4) Practice historical knowledge recall (KS4) Encourage a growth mindset: Mindset Kit What is a growth mindset?, Growth Mindset for Parents 	

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: **History**

Year 7		
Half term	Topic	Text
1	Ancient Societies	<p>Non-Fiction books on Ancient Greece: https://fivebooks.com/best-books/ancient-greece-christopher-pelling/</p> <p>Ancient Greece: The Greatest Show on Earth: https://www.bbc.co.uk/programmes/b039gly5</p> <p>https://horriblehistoriestv.wixsite.com/horriblehistoriestv/groovy-greeks</p> <p>None-Fiction books on Roman Britain: https://shepherd.com/best-books/roman-britain</p> <p>Great video resource that has several videos on the Romans available: https://www.youtube.com/c/bbcteach</p>
2	Anglo Saxon England Vikings Norman Conquest	<p>Great video resource that has several videos on this topic available: https://www.youtube.com/c/bbcteach</p> <p>Walking Through History – Norman Conquest Pembrokeshire: https://www.youtube.com/watch?v=siRskGbcmuM</p> <p>None-Fiction Norman Conquest books: https://www.goodreads.com/shelf/show/norman-conquest</p> <p>https://www.bbc.co.uk/history/ancient/vikings/</p> <p>https://www.bl.uk/anglo-saxons/articles/who-were-the-anglo-saxons</p>

Year 8		
Half term	Topic	Text
1	English Civil War	<p>The English Civil War: https://www.youtube.com/watch?v=PevgLpaVvwE</p> <p>Watch: To Kill a King https://www.history.com/topics/british-history/english-civil-wars</p> <p>Various books on the English Civil War: https://www.amazon.co.uk/English-Civil-War-Books/b?ie=UTF8&node=771740</p>
2	British Empire	<p>BBC Empire: https://www.youtube.com/watch?v=VdDzYregUQg</p> <p>The best books on the British Empire: https://fivebooks.com/best-books/british-empire-david-cannadine/</p> <p>The aftermath of the empire: https://www.theguardian.com/books/2021/jul/14/top-10-books-about-the-aftermath-of-empire-madeleine-bunting-ceremony-of-innocence</p>

Year 9

Half term	Topic	Text
1	World War One	World War One Documentaries: https://www.bbc.co.uk/mediacentre/mediapacks/ww1/docs/ First World War Books: https://www.waterstones.com/category/history/military-history/first-world-war
2	World War Two	Second World War Books: https://www.waterstones.com/category/history/military-history/second-world-war Watch – Munich: The Edge Of War World War Two in Colour Hitler’s Circle of Evil

Year 10 and 11

Topic	Text
Medicine Through Time	The Butchering Art - Lindsey Fitzharris Several videos on this YouTube channel on the medicine topic: https://www.youtube.com/c/bbcteach
Early Elizabethan England	The Time Traveller's Guide to Elizabethan England – Ian Mortimer Black Tudors: The Untold Story – Miranda Kaufmann
Weimar and Nazi Germany	Hitler the Rise of Evil: https://www.youtube.com/watch?v=3HvHKgRSwGs This covers all of Hitler’s rise to power. Worth a watch. Books on Weimar Germany: https://shepherd.com/best-books/for-understanding-the-weimar-republic https://www.theguardian.com/books/2017/may/31/top-10-books-about-weimar-and-nazi-berlin Travellers in the Third Reich: Julia Boyd
American West	Burnt my heart at Wounded Knee
	Your revision guides cover all these topics, so make sure to use them. GCSE Pods also cover all these topics, so make sure to use them.

A-Level/Further Education wider reading	<ul style="list-style-type: none"> To follow
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Modern Foreign Languages

French

Spanish

What can students do to further develop their skills in this subject area?	
KS4	<ul style="list-style-type: none"> • Read newspaper articles on a variety of subjects, recipes, tutorials, etc. • Taking 10 minutes every day to read one of them silently to understand first, then aloud in a second phase can help a lot with reading and speaking skills • Wikipedia has a French page for almost every subject. It could be interesting to read the French page of subjects that interest them • Some national French TV channels are accessible in the UK, watch some French TV!
What websites could students visit to support the curriculum?	
KS4	<ul style="list-style-type: none"> • https://www.lepointdufle.net/ : lessons and exercises in French • https://www.francaisfacile.com : lessons and exercises in French • https://la-conjugaison.nouvelobs.com/exercice/ : exercises for every levels • Online newspapers: https://www.ouest-france.fr/ ; https://www.lefigaro.fr/ ; https://charliehebdo.fr/ ; https://www.lemonde.fr/
How can parents/carers help and what can be done at home?	
KS4	<ul style="list-style-type: none"> • Buy the French versions of books that the students have already read in English (Harry Potter, Twilight, Narnia...) so they do not have to worry about understanding the story, they can focus more on the language • Watch movies and series in French, with English subtitles, so all the family can participate • Watch videos of French 'influencers' on Youtube, Dailymotion, Tiktok. Plenty of subjects are covered (sports, fashion, food, ASMR, travels...) so they can learn while having fun

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Spanish

Year 7		
Half term	Topic	Text
1	Numbers	Microsoft Word - Uno, dos, tal vez tres.docx (spanishplayground.net)
2	Día de los Muertos	Day of the Dead (nationalgeographic.com)
	Animals	Wilbooks Free Online Books Wilbooks Free Online Books
	Colours	Microsoft Word - es primavera ebook.docx (spanishplayground.net) Microsoft Word - BUSCA LOS COLORES3.1.docx (spanishplayground.net) Wilbooks Free Online Books

Year 8		
Half term	Topic	Text
1	Holidays	Wilbooks Free Online Books
2	Tapas/food	Wilbooks Free Online Books

Year 9		
Half term	Topic	Text
1	Free time activities	Wilbooks Free Online Books
2	Airport (holidays)	Short Stories in Spanish for Beginners (Teach Yourself, 1) (chapter 2) Absolute Beginner Spanish Reading No. 5: En el Aeropuerto (learnpracticalspanishonline.com)

Year 10 and 11

Topic	Text
Authentic resources	La citadelle du vertige, Alain Grousset (1991)
Authentic resources	La parure, Guy de Maupassant
Authentic resources	Les fourberies de Scapin, Moliere
Authentic resources	Perceval ou le conte du Graal, Anne-Marie Cadot-Colin
Authentic resources	Les fables de la fontaine, Jean de la Fontaine (17th century)

A-Level/Further Education wider reading	<ul style="list-style-type: none"> Molière <i>Le Tartuffe</i> Voltaire <i>Candide</i> Guy de Maupassant <i>Boule de Suif et autres contes de la guerre</i> Albert Camus <i>L'étranger</i> Françoise Sagan <i>Bonjour tristesse</i> Claire Etcherelli <i>Elise ou la vraie vie</i> Joseph Joffo <i>Un sac de billes</i> Faïza Guène <i>Kiffe kiffe demain</i> Philippe Grimbert <i>Un secret</i> Delphine de Vigan <i>No et moi</i>
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• **Online newspaper and Magazines in Spanish**

○ **Online newspaper**

- [EL PAÍS: el periódico global \(elpais.com\)](http://elpais.com)
- [EL MUNDO - Diario online líder de información en español](http://www.elmundo.es)
- [ABC - Tu diario en español - ABC.es](http://www.abc.es)
- [2022-11-05 | Homepage | Diario El Mercurio](http://www.elmercurio.cl)
- [https://www.clarin.com/](http://www.clarin.com/)
- [La Tercera - Noticias, deportes y actualidad de Chile y el mundo](http://www.latercera.cl)
- [El Universal | El periódico de México líder en noticias y clasificados](http://www.eluniversal.com.mx)
- [La Jornada](http://www.lajornada.com.mx)

○ **Online Magazines**

- [MARCA - Diario online líder en información deportiva](http://www.marca.com)
- [Elle España - Revista de moda, belleza, tendencias y celebrities](http://www.elle.es)
- [MuyInteresante.es. Innovación, Tecno, Ciencia, Cultura, Salud](http://www.muyinteresante.es)
- [Revista Muy Interesante | Muy Interesante México - Latinoamérica](http://www.muyinteresante.com.mx)

- [Revista del corazón, prensa rosa y famosos - Últimas noticias del corazón \(diezminutos.es\)](#)
- [Sobre la revista - 3DJuegos](#)
- **Lexicographic resources**
 - **Physical**
 - [Oxford Spanish Dictionary: Amazon.co.uk: Oxford Languages: 9780199543403: Books](#)
 - [Spanish Essential Dictionary and Grammar: Two books in one \(Collins Essential Dictionaries\): Amazon.co.uk: Collins Dictionaries: 9780008183677: Books](#)
 - **Digital**
 - [English to French, Italian, German & Spanish Dictionary - WordReference.com](#)
 - [Linguee | Dictionary for German, French, Spanish, and more](#)
 - [SpanishDict | English to Spanish Translation, Dictionary, Translator](#)

French Films

- *Les 400 coups* François Truffaut (1959)
- *Au revoir les enfants* Louis Malle (1987)
- *La Haine* Mathieu Kassovitz (1995)
- *L'auberge espagnole* Cédric Klapisch (2002)
- *Un long dimanche de fiançailles* Jean-Pierre Jeunet (2004)
- *Entre les murs* Laurent Cantet (2008)



Music, Technology & Arts

Subject: Music

What can students do to further develop their skills in this subject area?

- **Listen to a wide range of music** – both for pleasure, as well as around the topics being studied in lessons. For example, students studying learning about *the elements of music* in year 7, could listen to a piece of music and identify how the elements have been used. If you are learning to play a specific piece for example *Ode to joy by Beethoven*, try listening to other pieces composed by Beethoven or complete some independent research into what life was like in his day. However, it is advised that you only listen to a small chunk of the music, so it does not overwhelm you. Maybe you could listen to pieces of music with members of your family.
- **Engage in discussion** about what you're learning in your Music lessons. Talk to adults and other students about your learning journey so far in music. Which pieces and concepts have you found most interesting to play or most challenging and why?
- Take a **leading role** in learning in lessons – collaborative learning will encourage and allow this.
- **Engage in discussion and listening with older generations** to explore and appreciate a wider variety of music. For example, why do your parents like specific pieces that you might not enjoy listening to?
- Attend **music concerts** by local and professional ensembles/orchestras and choirs.
- Develop a **wider awareness of current affairs**, accessing quality newspapers and current affairs programmes, e.g. Newsnight and Question Time.
- Be aware of and watch **documentaries** and television series exploring different genres of music and different composers.
- Research **historical** and **socio – economic factors** relating to music studied beyond those explored in class.
- Visit **local libraries and bookshops** to borrow books and find out what is happening musically in your local area. Sign up: [Join the Library - North East Lincsinspire \(lincsinspirelibraries.com\)](http://lincsinspirelibraries.com)
- Attend **extra-curricular clubs** offered at lunchtime and after school. The Music department offers a range of activities.
- Sign up to learn a **musical instrument** at school.
- **Practise your instrument** at lunchtime or after school in the music department.
- Join a **local music/ performing arts group**.
- <https://caxtontheatre.com/>
- [Pauline Quirke Academy - Cleethorpes \(pgacademy.com\)](http://pgacademy.com)
- [Stagecoach Grimsby | Children's Dance, Drama, and Singing Classes](#)
- [Footlights Grimsby * Footlights Theatre](#)
- [Duckegg Theatre Company Grimsby - Netmums](#)
- [North-East Lincs Music hub](#)
- <https://www.bing.com/ck/a?!&&p=272404c6ced50c1eJmItdHM9MTY2Njc0MjQwMCZpZ3VpZD0wYWUyM2E5My02OTA1LTY1ZWQtMWU4NS0yYTgxNjg2NjY0OTYmaW5zaWQ9NTE3Mw&ptn=3&hsh=3&fclid=0ae23a93-6905-65ed-1e85-2a8168666496&psq=music+hub+in+grimsby&u=a1aHR0cHM6Ly93d3cubmVsbXVzaWNodWlub3JnLnVrLw&ntb=1>
- Note flight is a composition software package that is free to use.
- <https://www.bing.com/ck/a?!&&p=7314ff7f124bf057JmItdHM9MTY2Njc0MjQwMCZpZ3VpZD0wYWUyM2E5My02OTA1LTY1ZWQtMWU4NS0yYTgxNjg2NjY0OTYmaW5zaWQ9NTE3NA&ptn=3&hsh=3&fclid=0ae23a93-6905-65ed-1e85-2a8168666496&psq=noreflight&u=a1aHR0cHM6Ly93d3cubm90ZWZsaWdodC5jb20v&ntb=1>
-
- **Take responsibility** for your own learning: Access Teams when you are absent to complete work- don't leave gaps.

What websites could students visit to support the curriculum?

[This link has a wide range of musical activities for you to engage in.](#)

<https://www.bing.com/ck/a?!&&p=03bed5a29201f46bJmItdHM9MTY2Njc0MjQwMCZpZ3VpZD0wYWUyM2E5My02OTA1LTY1ZWQtMWU4NS0yYTgxNjg2NjY0OTYmaW5zaWQ9NTE3NA&ptn=3&hsh=3&fclid=0ae23a93-6905-65ed-1e85-2a8168666496&psq=UK+music+website+for+kids&u=a1aHR0cHM6Ly93d3cubm90ZWZsaWdodC5jb20v&ntb=1>

Broadsheet newspaper websites – for instance [The Times Online](#); [The Guardian](#); [The Independent](#); [BBC News](#).

[BBC iPlayer](#) (radio) store numerous podcasts and recordings of music in every style and era

This is a link for an interactive piano.

<https://www.bing.com/ck/a?!&&p=2f0f71d8f4d8b9c0JmItdHM9MTY2Njc0MjQwMCZpZ3VpZD0wYWUyM2E5My02OTA1LTY1ZWQtMWU4NS0yYTgxNjg2NjY0OTYmaW5zaWQ9NTE5MQ&ptn=3&hsh=3&fclid=0ae23a93-6905-65ed-1e85-2a8168666496&psq=musicca+interactive+piano&u=a1aHR0cHM6Ly93d3cubXVzaWNjYS5jb20vcGlhbm8&ntb=1>

Music – BBC Bitesize KS3

How can parents/carers help and what can be done at home?

- Sit and read regularly with your son or daughter. Recommend books that you have read. Discuss key issues and ideas explored in the text being read. This will enable your child to articulate their answers in music effectively.
- Encourage them to join extra-curricular activities in and out of school and ask questions about what was learnt and performed in the activity.
- Use the wider reading list to stretch and challenge them.
- Talk about what they are learning in their music lessons and ask questions about their learning.
- Encourage your son or daughter to practise speaking and listening presentations to develop confidence when speaking publicly. This is where most students feel least confident.
- Encourage your son or daughter to practise their musical instrument 4 – 5 times a week for 10 – 15 minutes, at least.
- Discuss the news and introduce an interesting fact or topic of the week. Alexa has a fact of the day.
- Attend music performances of musicians.
- Give children a broad range of experiences, e.g. visiting exhibitions, listening to music.
- Attend RAG meetings when invited (KS4)
- Practice quote chunking with them (KS4)
- Encourage a growth mindset: [Mindset Kit | What is a growth mindset?, Growth Mindset for Parents](#)
- Create a quiet space and regular time for wider reading and practising their musical instrument.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Music

Year 7		
Half term	Topic	Text
1	The building blocks of music Rhythm & beat Elements of music Pitched & non pitched instruments	Music matters you tube clip on rhythm and beat/pulse https://youtu.be/Piu9owzh75o The elements in more detail https://youtu.be/q-aolcJ2_yw More about the elements https://youtu.be/V7JHdl_9sqw Percussion - KS3 Music - BBC Bitesize - BBC Bitesize
2	Simple note values Crotchets Quavers Minims Semiquavers Time signatures	Different note values https://youtu.be/zSfEa1wOiNk Time signatures https://youtu.be/qtvx57P4oKo https://www.bing.com/ck/a?!&&p=cc9cd2f108a2cadclmldHM9MTY2Njc0MjQwMCZpZ3VpZD0wYWUyM2E5My02OTA1LTY1ZWQtMWU4NS0yYTgxNjg2NjY0OTYmaW5zaWQ9NTQ5OA&ptn=3&hsh=3&fclid=0ae23a93-6905-65ed-1e85-2a8168666496&psq=What+is+a+time+signature+in+music%3f&u=a1aHR0cHM6Ly9lbi53aWtpcGVkaWEub3JnL3dpa2kvVGltZV9zaWduYXR1cmUjOn46dGV4dD1UaGUIMjB0aW1lJTlwc2lnbmF0dXJlJTl4YWxzbyUyMGtub3duJTl4YXMIMjBtZXRlciUyMHNpZ25hdHVyZSUyQyx3aGljaCUyMG5vdGUIMjB2YWx1ZSUyMGJlJTl4ZXF1aXZhbGVudCUyMHRvJTl4YSUyMGJlYXQu&ntb=1
3	Introduction to pitch Notes on the stave/ staff for the treble clef Pentatonic scale Composing pentatonic pieces.	https://youtu.be/4Chlf6c878M https://youtu.be/vw74Huatd60
4	Introduction to major scales & tonalities. Ode to Joy by Beethoven.	Major scales https://youtu.be/IGt_dnTyoIE Ode to joy flash mob https://youtu.be/-W-hH1r7n5k Understanding Beethoven's 9 th Symphony https://youtu.be/xhSnUATUljg

	Tones & semitones. Musical structure.	
5	Introduction to minor scales & tonalities Tones & semitones in minor scales. Learn a piece in a minor key Analysis of the piece including how the melody is organised	Minor scales in greater detail https://youtu.be/a34qYxvRtJU Listen to the song Dance Monkey, this is in a minor key. Analyse the overall structure of the piece. If you wish to learn to learn this piece at home, ask Miss Thomas for the music.
6	Why is this song so popular?	Complete your own research on pop music from the 1950s onwards. Choose the same date of every decade between 1950s and the present day. Who was number 1 in the charts? How many top hits did they have? Who were the band members? Most importantly listen to their music, refer to the elements (Y7 HT1) and decide how the elements have been used. POPSTUDY - Shortcut.lnk

Year 8		
Half term	Topic	Text
1	Major scales	Major scales https://youtu.be/IGt_dnTyoIE Here is a tutorial that will help you learn some popular classical pieces. If you do not have a keyboard at home, ask if you can borrow one from school. https://youtu.be/E-r8eM887Yg
2	12 Bar Blues	Play a more complex version of the 12-bar blues on the piano/keyboard with Jordan https://youtu.be/kLFkT3LBWzA
3 & 4	Theme and Variation	Variations of Happy birthday in styles of famous classical composers. How have the theme been varied? https://youtu.be/2eFFiqLu5sU Mr Gossard of ostinato fame gives examples of variations https://youtu.be/iXRWIDR7aXE
5	Ragtime music	What is ragtime? https://youtu.be/QTQQAWCqytE The rise and fall and rise of Scott Joplin https://youtu.be/VCA002iN3xE How to play the Maple leaf rag

		https://youtu.be/u76cziosyXA
6	Why is this song so popular?	Complete your own research on pop music from the 1950s onwards. Choose the same date of every decade between 1950s and the present day. Who was number 1 in the charts? How many top hits did they have? Who were the band members? Most importantly listen to their music, refer to the elements (Y7 HT1) and decide how the elements have been used. POPSTUDY - Shortcut.Ink

Year 9

Half term	Topic	Text
1	Major and minor scales/tonalities	Major scales https://youtu.be/lGt_dnTyoIE Ode to joy flash mob https://youtu.be/-W-hH1r7n5k Understanding Beethoven's 9 th Symphony https://youtu.be/xhSnUATUljg Minor scales in greater detail https://youtu.be/a34qYxvRtJU Here is a tutorial that will help you learn some popular classical pieces. If you do not have a keyboard at home, ask if you can borrow one. https://youtu.be/E-r8eM887Yg
2 & 3	Film music	Compose your own film music - with Hans Zimmer and Ten Pieces - KS3 Music - BBC Bitesize - BBC Bitesize Use this link to compose your own film music
4 & 5	Pachelbel's canon/Ground bass	Pachelbel's canon on original instruments https://youtu.be/JvNQLJ1_HQ0 Pachelbel's canon and musicians that have used Pachelbel's canon to produce their own pieces. https://youtu.be/yknBXOSIFQs Compose your own ground bass piece (you will need to use your own email address not your school email address) https://youtu.be/QuxcPN-7-m0
6	Why is this song so popular?	Complete your own research on pop music from the 1950s onwards. Choose the same date of every decade between 1950s and the present day. Who was number 1 in the charts? How many top hits did they have? Who were the band members? Most importantly listen to their music, refer to the elements (Y7 HT1) and decide how the elements have been used. POPSTUDY - Shortcut.Ink

Year 10 and 11

Topic	Text
General websites that are useful	Music matters – you tube clips BBC GCSE music bitesize
Area of study 1 My music	Listen to as many pieces as possible from different eras and genres for the instrument you are learning to play, make notes of what you are listening to.
Area of study The concerto through time	Recommended listening for this area of study Vivaldi: The Four Seasons • Bach: Brandenburg No 4 • Mozart: Flute Concerto in D Major • Haydn: Trumpet Concerto in Eb Major • Beethoven: Piano Concerto No 1 in C Major • Brahms: Violin Concerto in D Major • Rachmaninov: Piano Concerto No 2 in C Minor • Corelli: Concerto Grosso Op 6
Area of study 3	Recommended listening for this area of study

Rhythms of the world	<p>Punjabi Bhangra: • Audio CD: Bhangra Beatz Naxos World label Traditional Eastern Mediterranean and Middle Eastern Folk Rhythms: • Palestinian folk music: • Audio CD: Israeli Folk Dances Vol 1 Hataklit label: E.g. Ve'Shuv Itchem Greek folk music: • Audio CD: The Rough Guide to Greek Café World Music Network label E.g. Lesvos Aiolis: Kontrabatzidhes Traditional African Drumming: • BBC GCSE Bitesize: Music of Africa http://www.bbc.co.uk/schools/gcsebitesize/music/world_music/music_africa2.shtml Traditional Rhythms of the Americas: • The Beatlife Book: Playing & Teaching Samba by Preston and Hardcastle • BBC GCSE Bitesize: Samba Music http://www.bbc.co.uk/education/clips/z99vcdm</p>
Area of study 4 Film music	<p>John Barry: Out of Africa, Somewhere in Time • Hans Zimmer: Pirates of the Caribbean, Gladiator • Emmanuel Fratianni: Avatar • John Williams: Jaws, Star Wars • Tommy Tallerico & Emmanuel Fratianni: Advent Rising • Halo • Assassins Creed</p>
Area of study 5 Conventions of pop	<p>rock 'n' Roll of the 1950s and 1960s: • Elvis Presley: Hound Dog (1952) • The Beatles: Saw Her Standing There (1963) • The Beach Boys: Surfin' USA (1963) Rock Anthems of the 1970s and 1980s: • Queen: We Will Rock You (1977) • Bon Jovi: Livin' On A Prayer (1986) • Guns and Roses: Sweet Child O' Mine (1987) Pop Ballads of the 1970s, 1980s and 1990s: • Elton John: Candle In The Wind (1973) • Bette Midler: Wind Beneath My Wings (1988) • Bob Dylan: Make You Feel My Love (1997) (Also same year performed by Billy Joel) Solo Artists from the 1990s to the Present Day: • Michael Jackson: Black or White (1991) • Kylie Minogue: Can't Get You Outta My Head (2001) • Adele: Someone Like You (2011)</p>

A-Level/Further Education wider reading	<p>Colleges are less enthusiastic about accepting students onto A level music courses unless they have at least grade 5 or above in a graded exam, such as ABRSM or Trinity college, on their musical instrument or clear evidence that students are at that level.</p> <p>Colleges also like their students to have completed grade 1 and above, grade 8 is the highest, in theory which teaches the rudiments of music.</p> <p>Daily practise on your musical instrument is required if you intend to take music as an A level, alongside an ability to perform effectively as part of an ensemble.</p> <p>Ensembles for young people, outside of JWA, are organised by the Music Hub of Northeast Lincolnshire. This constitutes wider reading when considering music A level.</p>
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What can students do to further develop their skills in this subject area?

- **Engage in discussion** about what you're learning in your Drama lessons. Talk to adults and other students about your learning journey so far. Which topics and skills have you found most interesting to play or most challenging and why?
- Take a **leading role** in learning in lessons – collaborative learning will encourage and allow this.
- **Engage in discussion and listening with older generations** to explore and appreciate a wider variety of performance. For example, why do your parents like specific styles of theatre that you might not enjoy?
- Attend performances by local and professional theatre companies.
- Develop a **wider awareness of current affairs**, accessing quality newspapers and current affairs programmes, e.g. Newsnight and Question Time.
- Be aware of and watch **documentaries** and television series exploring different genres of performance and different practitioners.
- Research **historical** and **socio – economic factors** relating to drama studied beyond those explored in class.
- Visit **local libraries and bookshops** to borrow books and find out what performances are happening in your local area. Sign up: [Join the Library - North East Lincsinspire \(lincsinspirelibraries.com\)](http://lincsinspirelibraries.com)
- Attend **extra-curricular clubs** offered at after school.
- **Practise your performances** at lunchtime or after school in the drama department.
- Join a **local Drama/Performing arts group**.
- <https://caxtontheatre.com/>
- [Pauline Quirke Academy - Cleethorpes \(pqacademy.com\)](http://pqacademy.com)
- [Stagecoach Grimsby | Children's Dance, Drama, and Singing Classes](#)
- [Footlights Grimsby ★ Footlights Theatre](#)
- [Duckegg Theatre Company Grimsby - Netmums](#)
- **Take responsibility** for your own learning: Access Teams when you are absent to complete work- don't leave gaps.

What websites could students visit to support the curriculum?

- National Novel Writing Month - www.nanowrimo.org
- Broadsheet newspaper websites – for instance [The Times Online](#); [The Guardian](#); [The Independent](#); [BBC News](#).
- [BBC iPlayer](#) (radio) store numerous podcasts and recording of radio plays.
- Young Writers- [Poetry & Creative Writing For Schools | Young Writers](#)
- Refer to the wider reading lists for topic specific websites

How can parents/carers help and what can be done at home?

- Sit and read regularly with your son or daughter. Recommend books that you have read. Discuss key issues and ideas explored in the text being read. This will enable your child to articulate their answers in drama effectively.
- Encourage them to join extra-curricular activities in and out of school and ask questions about what was learnt and performed in the activity.
- Use the wider reading list to stretch and challenge them.
- Talk about what they are learning in their drama lessons and ask questions about their learning.
- Encourage your son or daughter to practise speaking and listening presentations to develop confidence when speaking publicly. This is where most students feel least confident.
- Encourage your son or daughter to engage in extra-curricular activities outside of school hours.
- Discuss the news and introduce an interesting fact or topic of the week. Alexa has a fact of the day.
- Attend drama performances of local and professional productions.
- Give children a broad range of experiences, e.g. visiting exhibitions, watching performances or spending time discussing drama.
- Attend RAG meetings when invited (KS4)
- Practice quote chunking with them (KS4)
- Encourage a growth mindset: [Mindset Kit | What is a growth mindset?, Growth Mindset for Parents](#)
- Create a quiet space and regular time for wider reading and practising their musical instrument.
- Encourage your child to find out about drama online. Promoting independency.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Drama and Performing Arts

Year 7		
Half term	Topic	Text
1 & 2	Freeze frames, Commedia Dell'arte, silent movies and mime	Freeze Frames - Drama Resource commedia dell'arte History, Characters, & Facts Britannica Silent movies: CITY LIGHTS (1931) THE GOLD RUSH (1925) ... MODERN TIMES (1936) ... THE GREAT DICTATOR (1940) ... THE KID (1921)
3	Theatre through the ages	Greek Theatre backstage page National Theatre Introduction to Theatre -- Medieval Theatre (nvcc.edu) What You Need to Know About Commedia Dell'Arte (thoughtco.com) English Renaissance Theatre English Literature I (lumenlearning.com) What is Melodrama — Definition & Examples in Literature & Film (studiobinder.com) About: Naturalism (theatre) (dbpedia.org)
4	Pandora's Box	The myth of Pandora's box - Iseult Gillespie - YouTube Pandora's box, the Greek myth of Pandora and her box (greekmyths-greekmythology.com) The Story of Pandora's Box (greekboston.com)
5	Evacuees	BBC - WW2 People's War - An Evacuee's Story Evacuees of the Second World War Operation Pied Piper - YouTube Read about child evacuees in the Second World War - The National Archives blog
6	Noughts and Crosses by Malorie Blackman	BBC iPlayer - Noughts + Crosses Novel by Malorie Blackman – Noughts and Crosses Noughts & Crosses - Malorie Blackman ~ Author of Noughts and Crosses

Year 8		
Half term	Topic	Text
1 & 2	Freeze frames, Commedia Dell'arte, silent movies and mime	Freeze Frames - Drama Resource commedia dell'arte History, Characters, & Facts Britannica Silent movies: CITY LIGHTS (1931) THE GOLD RUSH (1925) ... MODERN TIMES (1936) ... THE GREAT DICTATOR (1940) ... THE KID (1921)
3	Theatre through the ages	Greek Theatre backstage page National Theatre Introduction to Theatre -- Medieval Theatre (nvcc.edu) What You Need to Know About Commedia Dell'Arte (thoughtco.com) English Renaissance Theatre English Literature I (lumenlearning.com) What is Melodrama — Definition & Examples in Literature & Film (studiobinder.com) About: Naturalism (theatre) (dbpedia.org)

4	Pandora's Box	The myth of Pandora's box - Iseult Gillespie - YouTube Pandora's box, the Greek myth of Pandora and her box (greekmyths-greekmythology.com) The Story of Pandora's Box (greekboston.com)
5	Evacuees	BBC - WW2 People's War - An Evacuee's Story Evacuees of the Second World War Operation Pied Piper - YouTube Read about child evacuees in the Second World War - The National Archives blog
6	Noughts and Crosses by Malorie Blackman	BBC iPlayer - Noughts + Crosses Novel by Malorie Blackman – Noughts and Crosses Noughts & Crosses - Malorie Blackman ~ Author of Noughts and Crosses

Year 9

Half term	Topic	Text
1 & 2	Freeze frames, Commedia Dell'arte, silent movies and mime	Freeze Frames - Drama Resource commedia dell'arte History, Characters, & Facts Britannica Silent movies: CITY LIGHTS (1931) THE GOLD RUSH (1925) ... MODERN TIMES (1936) ... THE GREAT DICTATOR (1940) ... THE KID (1921)
3	Theatre through the ages	Greek Theatre backstage page National Theatre Introduction to Theatre -- Medieval Theatre (nvcc.edu) What You Need to Know About Commedia Dell'Arte (thoughtco.com) English Renaissance Theatre English Literature I (lumenlearning.com) What is Melodrama — Definition & Examples in Literature & Film (studiobinder.com) About: Naturalism (theatre) (dbpedia.org)
4	Pandora's Box	The myth of Pandora's box - Iseult Gillespie - YouTube Pandora's box, the Greek myth of Pandora and her box (greekmyths-greekmythology.com) The Story of Pandora's Box (greekboston.com)
5	Evacuees	BBC - WW2 People's War - An Evacuee's Story Evacuees of the Second World War Operation Pied Piper - YouTube Read about child evacuees in the Second World War - The National Archives blog
6	Two by Jim Cartwright	Play for study: Two Drama And Theatre Two - A Play by Jim Cartwright - YouTube

Year 10 and 11

Topic	Text
Blood Brothers by Willy Russell – set text component one section B	Copy of the play: Blood brothers (1).pdf (arkelvinacademy.org) Other works by Willy Russell: <ul style="list-style-type: none"> • <i>Our Day Out</i> (made-for-TV film 1976, musical stage version, 2010) • <i>Educating Rita</i> (play 1980, film 1983) • <i>Shirley Valentine</i> (play 1986, film 1989) • <i>Terraces</i> (BBC TV film 1993) • <i>The Wrong Boy</i> (first novel, 2000)

	<ul style="list-style-type: none"> • <i>Hoovering the Moon</i> (music album, 2003) <p>Blog: Why I love...Exploring Blood Brothers for our highest ability students – susansenglish (wordpress.com)</p> <p>Guide and work pack: Microsoft Word - Blood Brothers Course Booklet.docx (yourfavouriteteacher.com)</p> <p>Lit charts: Study Guide - Lit Chart - Blood Brothers.pdf (whitbyhigh.org)</p> <p>Context work: Microsoft Word - Blood Brothers revision booklet NEW (unfinished).doc (tgacademy.org.uk)</p> <p>Documentaries: (188) Liverpool .Our Liverpool Home (1978) - YouTube</p> <ul style="list-style-type: none"> • (188) The History of Liverpool (Full Documentary) - YouTube • Facing Redundancy 1980s UK British Industry What next? TV Eye 1981 - YouTube
<p>Theatre concepts, plays and stories studied at KS3</p>	<p>Freeze Frames - Drama Resource</p> <p>commedia dell'arte History, Characters, & Facts Britannica</p> <p>Silent movies: CITY LIGHTS (1931) THE GOLD RUSH (1925) ... MODERN TIMES (1936) ... THE GREAT DICTATOR (1940) ... THE KID (1921)</p> <p>Greek Theatre backstage page National Theatre</p> <p>Introduction to Theatre -- Medieval Theatre (nvcc.edu)</p> <p>What You Need to Know About Commedia Dell'Arte (thoughtco.com)</p> <p>English Renaissance Theatre English Literature I (lumenlearning.com)</p> <p>What is Melodrama — Definition & Examples in Literature & Film (studiobinder.com)</p> <p>About: Naturalism (theatre) (dbpedia.org)</p> <p>BBC iPlayer - Noughts + Crosses</p> <p>Novel by Malorie Blackman – Noughts and Crosses</p> <p>Noughts & Crosses - Malorie Blackman ~ Author of Noughts and Crosses</p> <p>Play for study: Two Drama And Theatre</p> <p>Two - A Play by Jim Cartwright - YouTube</p> <p>BBC - WW2 People's War - An Evacuee's Story</p> <p>Evacuees of the Second World War Operation Pied Piper - YouTube</p> <p>Read about child evacuees in the Second World War - The National Archives blog</p> <p>The myth of Pandora's box - Iseult Gillespie - YouTube</p> <p>Pandora's box, the Greek myth of Pandora and her box (greekmyths-greekmythology.com)</p> <p>The Story of Pandora's Box (greekboston.com)</p> <p>Greek Theatre backstage page National Theatre</p> <p>Introduction to Theatre -- Medieval Theatre (nvcc.edu)</p> <p>What You Need to Know About Commedia Dell'Arte (thoughtco.com)</p> <p>English Renaissance Theatre English Literature I (lumenlearning.com)</p> <p>What is Melodrama — Definition & Examples in Literature & Film (studiobinder.com)</p> <p>About: Naturalism (theatre) (dbpedia.org)</p>
<p>Drama Practitioners Bertolt Brecht Antonin Artaud Konstantin Stanislavski Frantic Assembly</p>	<p>Bertolt Brecht Biography, Plays, Epic Theater, Poems, & Facts Britannica</p> <p>Bertolt Brecht Poetry Foundation</p> <p>Bertolt Brecht Techniques and Facts (dramaclasses.biz)</p> <p>Antonin Artaud and the Theatre of Cruelty The British Library (bl.uk)</p> <p>Antonin Artaud Poetry Foundation</p> <p>Theatre of Cruelty experimental theatre Britannica</p>

	<p>Konstantin Stanislavsky Biography, Method, & Facts Britannica What is Stanislavski Technique? City Academy Guides (city-academy.com) The Stanislavski Method of Acting Backstage Home Frantic Assembly Frantic Assembly Masterclass: Building Blocks for Devising - YouTube Frantic Assembly Masterclass: Learning to Fly - YouTube Frantic Assembly Internationally renowned physical theatre company (everymanplayhouse.com)</p>
<p>Concepts for component one</p>	<p>AQA Subject specific vocabulary Staging - Staging - AQA - GCSE Drama Revision - AQA - BBC Bitesize THEATER AND STAGE DIRECTIONS FOR BEGINNERS - YouTube Designers - Theatre roles - AQA - GCSE Drama Revision - AQA - BBC Bitesize</p>

<p>A-Level/Further Education wider reading</p>	<p>A Doll's House by Henrik Ibsen AQA Teaching guide: suggested plays</p>
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What can students do to further develop their skills in this subject area?

- Visit art galleries – both for pleasure, as well as around the topics being studied in lessons. For example, students studying learning about Celtic Art in year 8 could visit craft fairs or galleries who are featuring Celtic Art .
- Engage in discussion about what you're learning in your Art lessons. Talk to adults and other students about your learning journey so far in Art. Which medium and techniques have you found most interesting to create art with or most challenging and why?
- Take a leading role in learning in lessons – collaborative learning will encourage and allow this.
- Engage in discussion and listening with older generations to explore and appreciate a wider variety of art. For example, why do your parents like specific artwork that you might not enjoy looking at?
- Attend art galleries and museums - can you book a workshop with an artist they are featuring?
- Develop a wider awareness of current affairs, accessing quality newspapers and current affairs programmes, e.g. Newsnight and Question Time.
- Be aware of and watch documentaries and television series exploring different artists.
- Research historical and socio – economic factors relating to art studied beyond those explored in class.
- Visit local libraries and bookshops to borrow books and find out what is happening creatively in your local area. Sign up: Join the Library - North East Lincsinspire (lincsinspirelibraries.com)
- Attend extra-curricular clubs offered at lunchtime and after school.
- Practise drawing at lunchtime or after school in a club.
- Join a local art club.

What websites could students visit to support the curriculum?

Art community

Art Education UK

Wide range of resources for teachers

Artcyclopedia

An index of 6000 artists and related sites

Artlex Visual Arts Dictionary

A comprehensive dictionary containing definitions of more than 3000 art terms, along with illustrations, pronunciation notes and quotations

The Art Works

BBC – Your Paintings

200, 000 paintings to view

Behance

Graphics portfolios including branding, illustration, design for print, interactive graphics, photography

The Bridge

Useful link to the work of contemporary artists

Comprehensive Guide to Museums, Galleries and Exhibitions in the UK

Contextual References

Many useful contextual references and links

The Design Museum

Design Your Way

34 motion graphics studios and their work

Dexigner

Links to 189 graphic design portfolios

Directory of Illustration

Folio Planet

huge range of illustrators' portfolios in categories

MOCA: Museum of Computer Art

Promoting computer art in its many forms, current exhibitions and archiving the work of leading artists in the field

National Grid for Learning

National Society for Education in Art and Design

Extensive library of resources for art teachers

Art galleries and museums

AccessArt

British Library

British Museum

British Museum (Schools and teachers)

Design Museum

Henry Moore Foundation (Perry Green)

Henry Moore Institute (Leeds)

Impressions Gallery

Louvre

The National Centre for Craft & Design

National Gallery

National Media Museum

National Portrait Gallery

New Art Centre

Oxford Museums & Collections

Royal Academy of Arts

Royal Pump Rooms

Saatchi Gallery
 The Shipley Art Gallery
 South Bank Centre
 Tate
 Victoria and Albert Museum
 The World Museum Community

Art and architecture publishers

Abbeville Press
 Laurence King
 Lund Humphries
 Merrell
 National Gallery
 Oxford University Press
 Phaidon
 Prestel
 Routledge
 Taschen
 Tate
 Thames & Hudson
 Yale University Press

How can parents/carers help and what can be done at home?

Sit and read regularly with your son or daughter. Recommend books that you have read. Discuss key issues and ideas explored in the text being read. This will enable your child to articulate their answers in art effectively.

- Encourage them to join extra-curricular activities in and out of school and ask questions about what was learnt and performed in the activity.
- Use the wider reading list to stretch and challenge them.
- Talk about what they are learning in their art lessons and ask questions about their learning.
- Encourage your son or daughter to practise drawing at home and create their own sketchbook, recording interesting objects or scenes.
- Encourage your son or daughter to practise their artistic talents throughout the week.
- Discuss the news and introduce an interesting fact or topic of the week.

Alexa has a fact of the day.

- Attend art galleries and museums .
- Watch documentaries about art & Design.

Attend RAG meetings when invited (KS4)

- Encourage a growth mindset: Mindset Kit | What is a growth mindset?, Growth Mindset for Parents
- Create a quiet space and regular time for drawing at home.
- Purchase a wide range of art materials to practise with at home.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Art and photography

Year 7		
Half term	Topic	Text
1	Formal elements	The Elements of Art (nga.gov) What are the Formal Elements of Art? Here's the Real Answer - Art Hearty The 7 Elements of Art — Online Art Lessons
2	Colour theory	Colour - Colour - GCSE Art and Design Revision - BBC Bitesize What is colour? - BBC Bitesize Jasper Johns born 1930 Tate Jasper Johns: 10 works to know Blog Royal Academy of Arts Jasper Johns Color Numerals (nga.gov)
3	Aboriginal art	The Amazing Story of Aboriginal Art (aboriginal-art-australia.com) 10 Facts About Aboriginal Art Kate Owen Gallery Aboriginal Arts and Culture facts for kids National Geographic Kids (natgeokids.com)
4	Aboriginal design ideas and development	Indigenous Australian Aboriginal Artists (aboriginalartshop.com) Aboriginal Art Styles (aboriginal-art-australia.com) What techniques are used in Aboriginal artworks? - Mbantua Gallery
5	Animal illustration	How to Draw Animals An Easy Drawing Guide for Starting (artistsnetwork.com) How To Draw Animals: 50 Free Tutorial Videos To Help You Learn Step-By-Step (conceptartempire.com)
6	Animal design ideas and development	Contemporary Artists Inspired By Animals - Christie's International Real Estate (christiesrealestate.com) 11 Animal Paintings by Famous Artists - FeltMagnet Dina Wakley: Art Journal Animals - 10 Mixed Media Techniques - PaintTube.tv

Year 8		
Half term	Topic	Text
1	Celtic Art – Interlocking form observation drawing.	Celtic Art - An Exploration of the Ancient Celts' Art History and Styles (artincontext.org) Ancient Celtic Art - World History Encyclopedia History of Art: Celtic Art Definition, Paintings, Sculptures and Artists (theartist.me) How to draw 3D Chain - Quick & Easy - ANYONE CAN DO THIS!!! maybe. - YouTube How to Draw Barbed Wire - Really Easy Drawing Tutorial (easydrawingguides.com)
2	Developing ideas and experimentation	20 Celtic Symbols and Their Meanings - Ireland Wide Celtic Symbols - Graphic and Meanings of Celtic Symbols (symbolikon.com) CELTRIC ART STUDIO artist gallery and store - Celtic Art Studio
3	Developing final outcome	Michael Carroll Celtic DesignMichael Carroll Celtic Design (mccelticdesign.com) Celtic Art - An Exploration of the Ancient Celts' Art History and Styles (artincontext.org)

4	Portrait drawing	How to Draw a Portrait - Drawing Academy Drawing Academy How To Draw A Portrait With These Easy Step By Step Videos (portraits-made-easy.com) 11 Most Famous Portrait Artists - Artst
5	Portrait artists and experimentation	Andy Warhol Portraits: A Definitive Guide (artland.com) Francis Picabia Paintings, Bio, Ideas TheArtStory Francis Picabia's Elusive Transparencies (mutualart.com) Joan Miro Paintings (joan-miro.net) Self Portrait, 1937 by Joan Miro (joan-miro.net)
6	Developing final portrait outcome	Famous Portrait Artists UK - Graphic Portraits & Live Face Drawing (illustrationx.com) Portrait Artist of the Year 2022 (Sky Arts 19 October 2022) (memorabletv.com) TOP 10 Best Portrait Artists in The World To Follow in 2022 (topteny.com) Painting Portraits in Acrylics: A practical guide to contemporary portraiture: Amazon.co.uk: Akib, Hashim: 9781782215813: Books

Year 9

Half term	Topic	Text
1	Cubist portrait	10 Iconic Cubist Portraits - Artst Cubist Portraits: Artists & Facts Study.com Cubism Tate Picasso: The Cubist Portraits of Fernande Olivier: Amazon.co.uk: Weiss, Jeffrey, Fletcher, Valerie J., Tuma, Kathryn: 9780691117416: Books
2	Cubist Still-life & observational drawing	Drawing a Cubist Still Life (Part 1) (artyfactory.com) How to Draw a Cubist Still Life in Pen – Improve Drawing Georges Braque and the Cubist Still Life, 1928-1945 by Karen K. Butler Goodreads Cubism Books (goodreads.com)
3	Developing Cubist Still-life final piece	GCSE Art and Design - BBC Bitesize GCSE thestudentartroom Cubism study for GCSE Art 'Order and 'Disorder' Gcse art sketchbook, Cubism art, A level art sketchbook (pinterest.co.uk) How to Draw Cubism Art - YouTube
4	Natural forms introduction & observational drawing	Natural Forms Artists The Art Teacher Natural Forms Artists to Use in the Art Classroom - The Arty Teacher Shapes in Nature Old Documentary Natural Forms, Patterns, Shapes Seashells, Plants & Animals - YouTube
5	Experimenting with techniques and processes in developing design ideas based on natural forms	Natural Forms and Landscape in Mixed Media Jo Hall (jo-hall.co.uk) Mixed media - Experimenting with materials and techniques - National 5 Art and Design Revision - BBC Bitesize 30 Simple Art Techniques Everyone Can Do - YouTube Red Flower / Easy Oil Pastel Drawing for Beginners / Easy Drawing - YouTube Seashells - mixed media painting demonstration - YouTube The Complete Book of Mixed Media Art: More than 200 fundamental mixed media concepts and techniques: 1: Amazon.co.uk: Walter Foster Creative Team: 9781633223431: Books
6	Final design for natural forms & printmaking	Looking back at my GCSE Natural Forms work! - YouTube BOTANICAL MONOPRIINTING - YouTube Printing for all ages - Printing from Nature - YouTube The Printed Line: An Introduction to Printmaking Techniques - YouTube Best Printmaking Books List Hickman Design

Year 10 and 11	
Topic	Text
GCSE Art & Design	GCSE Art and Design - BBC Bitesize AQA Subject specific vocabulary Options evening: GCSE Art career options (aqa.org.uk) Teaching guide (aqa.org.uk)
Fantastic & Strange	570 Fantastic and Strange ideas alexander mcqueen shoes, marc chagall, chagall (pinterest.co.uk) A* GCSE Art Sketchbook - Exam Prep - Fantastic and Strange-Fantasy - YouTube Top tips for [ARTIST RESEARCH PAGES] create amazing *art sketchbooks* PART 3 - YouTube A Gallery of Breathtaking Fantasy Artwork - YouTube
Erosion & Decay	270 Erosion and Decay GCSE (Art & Design) ideas art, art design, gcse art (pinterest.co.uk) Beauty in Decay: The Art of Urban Exploration : RomanyWG: Amazon.co.uk: Books The Art of Decay The Point Magazine Easy Step-by-Step Instructions on How to Paint an Industrial Decay Painting like a Pro! Art Tutorial - YouTube The Art of DECAY - YouTube
Natural Form	Natural Forms Artists The Art Teacher The William Morris Society » William Morris Derek DeYoung The DeYoung Collection – oil paintings & angling accessories featuring the art of Derek DeYoung (8) Pinterest
Food Art	Food Art: Food Artists, Food & Drink Design, Packaging Illustration (illustrationx.com) 15 Fascinating Food Artists and Sculptors [70 Pics] - WebEcoist (momtastic.com) Top 10 Best Food Artists in the World (pouted.com) I Make You Hungry - Commercial Food Photographer - London Food art - Wikipedia
GCSE Photography	
Alphabet photography	What is alphabet photography? - Scott Wyden Kivowitz About Jennifer Blakeley Alphabet® Photography UK Our Alphabet Art (alphabetphotography.co.uk) Abba Richman Saatchi Art Alphabet Photography Project - Photoshop Tutorial - Tips and Tricks - Bing video
Portrait photography	10 creative self-portrait techniques that will inspire you to create your own (canva.com) Mixed Media Photographers To Follow (nyfa.edu) What is Portrait Photography? (Simple) Helpful Guide (photofocus.com) (7) Pinterest Paintings Merged With Photographs Combine Crafts Into Seamless Art (mymodernmet.com) Double Take: Drawing and Photography The Photographers Gallery
Landscape photography	Photographing Industrial Landscapes - step by step photography guide (amateurphotographer.co.uk) Coastal Landscape Photography - Tips And Techniques For Great Images (landscapephotographyiq.com) 31 Best Landscape Photographers to Inspire in 2022 (fixthephoto.com) Architecture & Landscape Photography - Anna Henly Photography About — PETER MCKINNON
A-Level/Further Education wider reading	Texts will appear here soon

What can students do to further develop their skills in this subject area?	
	<ul style="list-style-type: none"> • Have a creative nature • Willingness to develop their coding skills • Willingness to develop their practical skills • Has a keen interest in Computer Science • A Problem solver – Computational thinking • Has a keen interest in STEM – Science, Technology, Engineering, Maths • Is aware of technological changes going on around the world • Ability to link theory elements to practical areas • Has great attention to detail • Aware of the impact technology has on the world • An independent explorer who shows interest outside of school • Is able to learn and develop code using Python • Understands that practise will develop • Confidence in using software and programming languages • Is able to make cross-curricular links with other subjects • Is able to help, plan and organise tasks effectively
What websites could students visit to support the curriculum?	
	<ul style="list-style-type: none"> • GCSE POD - https://www.gcsepod.com/ • DATA - https://www.data.org.uk/ • STEM - https://www.stem.org.uk/ • GCSE Bitesize - https://www.bbc.co.uk/bitesize/subjects/zvg4d2p • Python coding – www.Repl.it • HTML coding – www.Repl.it • Block based coding- www.scratch.com • Block based/Python- www.edublocks.com • GCSE revision- https://student.craigndave.org
How can parents/carers help and what can be done at home?	
	<ul style="list-style-type: none"> • Sit and read regularly with your son or daughter. Recommend books that you have read. Discuss key issues and ideas explored in the text being read. This will enable your child to articulate their answers in computer science effectively. • Encourage them to join extra-curricular activities in and out of school and ask questions about what was learnt. • Use the wider reading list to stretch and challenge them. • Talk about what they are learning in their computer science lessons and ask questions about their learning. • Encourage your son or daughter to practise coding and debugging programs. • Encourage your son or daughter to practise their coding skills using Scratch or Repl.it as online sources. • Discuss the news and introduce an interesting fact or topic of the week. Alexa has a fact of the day. • Give children a broad range of experiences, e.g. visiting exhibitions, theatre and understanding technical elements. • Attend RAG meetings when invited (KS4) • Practice quote chunking with them (KS4) • Encourage a growth mindset: Mindset Kit What is a growth mindset?, Growth Mindset for Parents • Create a quiet space and regular time for wider reading and practising their computer skills.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Computer Science and Enterprise

Year 7		
Half term	Topic	Text
1	Online safety	Online safety - BBC Teach What is Online Safety? (nationalonlinesafety.com) iDEA: Develop digital, enterprise and employability skills for free. Win career-enhancing badges and gain internationally recognised awards.
2	Flowcharts	Flowcharts in Programming - Applications & Best Practices (zenflowchart.com) Flowchart in programming: Definition, Examples and best programs (wondershare.com) What's a Program Flowchart? - Definition & Examples (edrawsoft.com)
3	Bitmap Graphics	Bitmap Definition (techterms.com) What is Bitmap? (tutorialspoint.com) What is Bitmap and When to Use Bitmap in Your Design (wondershare.com)
4	IDEA badges	iDEA: Develop digital, enterprise and employability skills for free. Win career-enhancing badges and gain internationally recognised awards. Online safety - BBC Teach What is Online Safety? (nationalonlinesafety.com)
5	Hardware and Binary	Understanding Binary Numbers for Beginners (steves-internet-guide.com) Understanding Binary. An Introduction to the 0s and 1s by Chase Nerd For Tech Medium What is Computer Hardware? Crucial.com
6	Microbit Challenges	Micro:bit Educational Foundation micro:bit (microbit.org) Let's code micro:bit (microbit.org) micro:bit classroom (microbit.org) microbits - Bing video

Year 8		
Half term	Topic	Text
1	Cyber Security Internet history	iDEA: Develop digital, enterprise and employability skills for free. Win career-enhancing badges and gain internationally recognised awards. What is Cybersecurity? IBM cybersecurity - Bing video A short history of the internet National Science and Media Museum A Brief History of the Internet - Internet Society What is the Internet Protocol? Cloudflare
2	Pixel Art	Pixilart - Free online pixel art drawing tool How to make pixel art Adobe What is a Pixel? - Definition from Techopedia

3	Edublocks and Python	EduBlocks Replit: the collaborative browser based IDE - Replit Welcome to Python.org
4	Key features of programming	Welcome to Python.org EduBlocks Replit: the collaborative browser based IDE - Replit Programming Concepts for Beginners (devopedia.org) Basic Programming Concepts for Beginners - CodeProject
5	HTML	Replit: the collaborative browser based IDE - Replit HTML Tutorial (w3schools.com) HTML For Beginners The Easy Way: Start Learning HTML & CSS Today » What Is HTML? Hypertext Markup Language Basics for Beginners (hostinger.com)
6	Microbits and robotics	Micro:bit Educational Foundation micro:bit (microbit.org) Let's code micro:bit (microbit.org) micro:bit classroom (microbit.org) microbits - Bing video

Year 9		
Half term	Topic	Text
1	Data representation	Understanding Binary Numbers for Beginners (steves-internet-guide.com) Data Representation in Computer Organization - javatpoint What is Binary? (computerhope.com)
2	Blender	Animation for Beginners: The Ultimate Get Started-Guide in 2022 (academyofanimatedart.com) Training - Blender Studio What Are The Main Features Of The Blender Software? – blender base camp
3	Python Programming	Welcome to Python.org EduBlocks Replit: the collaborative browser based IDE - Replit Programming Concepts for Beginners (devopedia.org) Basic Programming Concepts for Beginners - CodeProject
4	History of computing	history of computing - Bing video History of computers: A brief timeline Live Science A Complete History of Computers: From the 1800s to Now (g2.com)
5	Cybersecurity	iDEA: Develop digital, enterprise and employability skills for free. Win career-enhancing badges and gain internationally recognised awards. What is Cybersecurity? IBM cybersecurity - Bing video
6	Minecraft EDU	Minecraft Official Site Minecraft Education Edition MinecraftEdu - YouTube What Is Minecraft: Education Edition? MinecraftEdu, Explained - Ask.com

Year 10 and 11		
Half Term	Topic	Text
1	CS Primary storage ENT Market Research	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) Computer Storage Structure (tutorialspoint.com) Researching the Market: How to Conduct Market Research, Types, and Example (investopedia.com) Market Research: What it Is, Methods, Types & Examples QuestionPro

		What is market research? - Market research - Higher Business management Revision - BBC Bitesize
2	CS The need for secondary storage ENT Segmentation	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) Secondary Storage: Definition, Technology & Devices - Video & Lesson Transcript Study.com Identifying market segments - Market segmentation - Edexcel - GCSE Business Revision - Edexcel - BBC Bitesize Market mapping - Market segmentation - Edexcel - GCSE Business Revision - Edexcel - BBC Bitesize market segmentation bbc bitesize - Bing video
3	CS Types of secondary storage ENT Design mix	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) What is a Secondary Storage Device? (computerhope.com) The Design Mix - Infinityflame Function, aesthetics and cost - Product - Edexcel - GCSE Business Revision - Edexcel - BBC Bitesize Product design Business tutor2u
4	CS Data representation ENT Finance	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) Data Representation in Computer Organization - javatpoint What is Binary? (computerhope.com) Break-Even Analysis: Definition and How to Calculate and Use It (investopedia.com) break even analysis - Bing video Finance - GCSE Business Revision - AQA - BBC Bitesize
5	CS Hexadecimal ENT Proposal	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) What is Hexadecimal Numbers System? Table, Conversions, Examples (byjus.com) How To Write a Business Proposal in 2022 (With Examples) Indeed.com What is a Business Proposal? Definition, Types, and Examples - Better Proposals
6	CS Representing sound ENT Entrepreneurs	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) Binary Representation of Sound - teachComputing (teachwithict.com) Entrepreneur: What It Means to Be One and How to Get Started (investopedia.com) The 10 Greatest Entrepreneurs (investopedia.com)
	CS Representing Images	GCSE - BBC Bitesize Craig 'n' Dave Students (craigndave.org) How Is Image Represented In A Computer? Knologist

A-Level/Further Education wider reading	
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What can students do to further develop their skills in this subject area?

- Have a creative nature
- Willingness to develop their drawing skills
- Willingness to develop their practical skills
- Has a keen interest in Design & Technology
- A Problem solver – through questioning and experimenting
- Has a keen interest in STEM – Science, Technology, Engineering, Maths
- Is aware of technological changes going on around the world
- Ability to link theory elements to practical areas
- Has great attention to detail
- Interested in extra-curricular activities and visiting galleries/exhibitions
- Aware of the impact design & technology has on the world
- An independent explorer who shows interest outside of school
- Is able to learn and operate independently CAD/CAM packages
- Understands that practise will develop
- Confidence in using machinery, tools and equipment
- Is able to make cross-curricular links with other subjects
- Is able to help, plan and organise tasks effectively

What websites could students visit to support the curriculum?

- Technology Student - <http://www.technologystudent.com/>
- GCSE POD - <https://www.gcsepod.com/>
- DATA - <https://www.data.org.uk/>
- STEM - <https://www.stem.org.uk/>
- GCSE Bitesize - <https://www.bbc.co.uk/bitesize/subjects/zvg4d2p>
- Mr DT - <http://www.mr-dt.com/>
- Design & Technology - <http://www.design-technology.info/home.htm>
- Design & Technology - <http://www.design-technology.info/revisionguides/>
- Design Museum - <https://designmuseum.org/>
- V&A Museum - <https://www.vam.ac.uk/>
- Tate Modern - <https://www.tate.org.uk/visit/tate-modern>
- Tate Britain - <https://www.tate.org.uk/visit/tate-britain>

How can parents/carers help and what can be done at home?

There many things you can do to support your child. Below is a list on how to;

- Make sure there are a range of drawing material/equipment at home.
- Support with their reading – online and hardback copy
- Encourage visiting museums and galleries
- Encourage questioning of DT even if they are not heavily invested in it
- Have simple things to encourage your child to work in 3-D available like scissors, card, glue, etc. You don't need a workshop to make things.
- Most designing is now done on computers. Help your child access free 3-D and 2-D programs.
- Encourage your child to find out about design online. Promoting independency.
- Talk with your child on the changes of technology over the past years and its impact on society/environment
- What problems can be solved around the house to help promote independent thinking
- Discuss how the 6Rs - Reduce, Recycle, Repair, Rethink, Reuse, Refuse can be implemented into your everyday lives.

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Product design and Engineering

Year 7		
Half term	Topic	Text
1	Mobile phone stand project	Youtube - https://youtu.be/SdLegfoMXNA - Orthographic drawing.
2		Youtube - https://youtu.be/UHb_XNgIHFY - Biomimicry Youtube - https://youtu.be/dWAZ1rLyDwc - Basic tools Techsoft V3. ENGINEERING - DESIGN AND TECHNOLOGY (technologystudent.com) MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com) Research - Plastics (technologystudent.com)
3	Wooden train project	Joints and Fittings Index Page (technologystudent.com)
4		Technology student GCSE pod MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com) Hand Files / Engineers Files - 1 (technologystudent.com) WOOD BASED MATERIALS INCLUDING PROCESSING AND MANUFACTURE (technologystudent.com)
5	Perspective drawing	THE DESIGNER AND PERSPECTIVE DRAWING (technologystudent.com) Youtube - https://youtu.be/KessaP_Fu10
6		

Year 8		
Half term	Topic	Text
1	Pewter Casting	Youtube - https://youtu.be/C3fAALoh9jo - Techsoft V3 contouring
2		MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com)
3		Casting Pewter (technologystudent.com) Research - Metals (technologystudent.com) Hand Files / Engineers Files - 1 (technologystudent.com) WOOD BASED MATERIALS INCLUDING PROCESSING AND MANUFACTURE (technologystudent.com) GCSE POD – Design and technology
4	Coat hook	MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com)
5		Research - Metals (technologystudent.com) Hand Files / Engineers Files - 1 (technologystudent.com) WOOD BASED MATERIALS INCLUDING PROCESSING AND MANUFACTURE (technologystudent.com) GCSE POD – Design and technology
6	Clock	MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com) Research - Plastics (technologystudent.com) GCSE POD – Design and technology

[Laser Cutting / Etching Machines - 2 \(technologystudent.com\)](http://technologystudent.com)

Year 9

Half term	Topic	Text
1	Electronics	Electronics Index Page (technologystudent.com) MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com) WOOD BASED MATERIALS INCLUDING PROCESSING AND MANUFACTURE (technologystudent.com) GCSE POD – Design and technology
2		
3	Coat hook	MATERIALS INCLUDING: LEVEL 1/2 TECHNICAL AWARD MATERIALS TECHNOLOGY (technologystudent.com) Research - Metals (technologystudent.com) Hand Files / Engineers Files - 1 (technologystudent.com) WOOD BASED MATERIALS INCLUDING PROCESSING AND MANUFACTURE (technologystudent.com) GCSE POD – Design and technology
4		
5	Drawing skills	Drawing Index Page (technologystudent.com) Drawing Techniques (technologystudent.com) GCSE POD – Design and technology
6		

Year 10 and 11

Topic	Text
Year 10	All the codes below link to the homework booklet for NCFE Engineering. Students are expected to watch the video and make detailed notes. https://members.gcsepod.com/shared/podcasts/chapter/52604 https://members.gcsepod.com/shared/podcasts/chapter/52674 https://members.gcsepod.com/shared/podcasts/chapter/80154 https://members.gcsepod.com/shared/podcasts/chapter/52607 https://members.gcsepod.com/shared/podcasts/chapter/63407 https://members.gcsepod.com/shared/podcasts/chapter/52726 https://members.gcsepod.com/shared/podcasts/chapter/77163 https://members.gcsepod.com/shared/podcasts/chapter/52732 https://members.gcsepod.com/shared/podcasts/chapter/52625 https://members.gcsepod.com/shared/podcasts/chapter/52598

	<p>https://members.gcsepod.com/shared/podcasts/chapter/76714</p> <p>https://members.gcsepod.com/shared/podcasts/chapter/52734</p> <p>https://members.gcsepod.com/shared/podcasts/chapter/52733</p> <p>https://members.gcsepod.com/shared/podcasts/chapter/52607</p> <p>https://members.gcsepod.com/shared/podcasts/chapter/52727</p> <p>https://members.gcsepod.com/shared/podcasts/chapter/52609</p> <p>https://members.gcsepod.com/shared/podcasts/chapter/77267</p> <p>Technology student – All aspects of the website.</p> <ul style="list-style-type: none"> • DATA - https://www.data.org.uk/ • STEM - https://www.stem.org.uk/ • Mr DT - http://www.mr-dt.com/ • Design & Technology - http://www.design-technology.info/home.htm • Design & Technology - http://www.design-technology.info/revisiionguides/
Year 11	<p>BTEC revision guide</p> <p>BTEC Student work book</p> <p>Past exam papers given out by the teacher.</p> <p>Technology student – All aspects of the website.</p> <p>GCSE Pod – Design and technology</p> <ul style="list-style-type: none"> • DATA - https://www.data.org.uk/ • STEM - https://www.stem.org.uk/ • Mr DT - http://www.mr-dt.com/ • Design & Technology - http://www.design-technology.info/home.htm • Design & Technology - http://www.design-technology.info/revisiionguides/
A-Level/Further Education wider reading	<p>Design Museum: Contemporary Design Catherine McDermott</p> <p>Process: 50 Product Designs from Concept to Manufacture Paperback – 25 Jennifer Hudson</p> <p>The Eco-Design Handbook Alastair Faud –Luke</p> <p>Designs of the Times Lakshmi Bhaskaran</p> <p>Arts & Crafts Companion Pamela Todd</p> <p>Bauhaus Benedict Taschen</p> <p>Memphis Bigitte Fitoussi</p> <p>The Measure of Man and Women: Human Factors in Design Alvin R. Tilley & Henry Dreyfuss Associates</p>



Physical Education

Subject: KS3 – PE, KS4 – Sport/Health and Social care

What can students do to further develop their skills in this subject area?	
KS3 PE	<p>In order to further develop skills in Core P.E, students can practice their given activities at home; attend an after school club; and/or even join a local club in the community (your teacher would be able to advise you who to contact).</p> <p>Your fitness levels will help you perform better in any sport so taking part in regular exercise for approximately an hour a day will help you be more readily prepared for the activities you will be required to do in P.E.</p>
KS4 Sport H/S	<p>In KS4 students are required to learn key concepts around the Sport and HSC syllabus before then applying that knowledge in their written assessments.</p> <p>In Sport, a genuine interest and understanding of several sports is extremely helpful when applying concepts to specific sporting examples. This can be developed by playing sport, watching sports and officiating or coaching a sport.</p>
What websites could students visit to support the curriculum?	
KS3 PE	<p>The reading list for P.E provides links to all of the governing bodies for the sports which we cover in P.E. These websites provide interesting information on elite competitions; identify elite player pathways and provide further information on coaching qualifications.</p>
KS4 Sport H/S	<p>The internet is an excellent research tool when taking a vocational subject like Sport or Health and Social Care. There are many educational websites e.g. BBC Bitesize which will provide relevant content whereas sites such as TeachPE.com and BrianMac.com are good sites for further reading on Sports Injuries; Training Principles: the Body's Response to Exercise and Health and Nutrition, which are all studied in OCR Sport.</p> <p>In Health and Social Care, NHS websites may help with background reading on Human Lifespan; Health and Social Care Services and Values and Health and Well Being.</p>
How can parents/carers help and what can be done at home?	
KS3 PE	<p>Parents can be supportive at home by providing students with the opportunities to continue to develop their skills and fitness levels outside of school, either by providing active lifestyle opportunities or by sourcing more specific coaching in a sport of interest.</p>
KS4 Sport	<p>All assignments are completed using Microsoft Teams, which means students are able to access their work from home. Students will benefit from showing their work to others and explaining the key principles which they have been learning, will deepen their understanding.</p> <p>Parent's asking questions like:</p> <p>"Can you show me some work you're proud of?"</p> <p>"What can you tell me about this work?"</p> <p>"How do you know this work is good"</p> <p>Will be good prompts for students to share what they have been learning.</p>

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: Physical Education

Year 7		
Half term	Topic	Text
1	Football Netball Basketball	The website for the English Football Association, Emirates FA Cup and England football team (thefa.com) Football Rules: How To Play Football/Soccer Rules of Sport England Netball Home Home Basketball England Sloper, Tammy (2021); Basketball for Beginners.
2	Cross Country	British Athletics Home - English Schools' Athletic Association (esaa.org.uk) Hemming, Peter (2022); Cross Country and All That Stuff.
3	Badminton Rugby Circuit Training	Badminton England The Nation's Favourite Racket Sport Home (englandrugby.com) Kovacs, Mark (2021); Dynamic Stretching; The Revolutionary New Warm Up Method to Improve Power, Performance and Range of Motion.
4	Tennis Golf Table Tennis	The Official Home of Tennis For Britain LTA The structure of england golf - England Golf Levi, Mateo (2022); Table Tennis for Beginners
5	Athletics	Carr, Gerry (1999); The Fundamentals of Track and Field. British Athletics Home - English Schools' Athletic Association (esaa.org.uk)
6	Cricket Rounders	England and Wales Cricket Board (ECB) - The Official Website of the ECB Brown, Gerald (2022); Cricket 101. Rounders England Connecting People Through Rounders
Year 8		
Half term	Topic	Text
1	Football Netball Basketball	The website for the English Football Association, Emirates FA Cup and England football team (thefa.com) The history of football (soccer) (footballhistory.org) England Netball Home All England Netball Association (2020); Netball (Know the Game) Home Basketball England Smith, Tony (2019) Basketball Rules for Kids: Children Learn the Calls and Playing Positions.
2	Cross Country and Fitness Requirements	British Athletics Home - English Schools' Athletic Association (esaa.org.uk) Humphrey, Sue and McCoy, Rachel (2021); I Want to Run: The Olympic Developmental Training and Nutritional Guide for Young and Teen Runners Aged 10-18.

3	Badminton; Rugby; Circuit Training for Fitness Components	Badminton England The Nation's Favourite Racket Sport Home (englandrugby.com) Hudson, Andrew (2021); High Intensity Circuit Training.
4	Tennis Golf Table Tennis	The Official Home of Tennis For Britain LTA The structure of england golf - England Golf Heaton, Jenny (2009); Table Tennis: Skills, Techniques, Tactics
5	Athletics	Carr, Gerry (1999); The Fundamentals of Track and Field British Athletics Home - English Schools' Athletic Association (esaa.org.uk)
6	Cricket Rounders	England and Wales Cricket Board (ECB) - The Official Website of the ECB Kumar, Naresh (2018); The Rules of Cricket. Rounders England Connecting People Through Rounders

Year 9

Half term	Topic	Text
1	Football Netball Basketball	The website for the English Football Association, Emirates FA Cup and England football team (thefa.com) Hasic, Mirsad (2013); The Soccer Fitness Guide. England Netball Home Mentor, Geva (2020); Leap: Making the Jump to Take Netball to the Top of the World. Home Basketball England Cook, Ben (2002) Total Basketball Fitness
2	Cross Country and Fitness Training	British Athletics Home - English Schools' Athletic Association (esaa.org.uk) Grant, Mick and Molvar, John (2014); The Youth and Teen Running Encyclopaedia: A Complete Guide for Middle and Long Distance Runners.
3	Badminton Rugby Circuit Training: Training Zones	Badminton England The Nation's Favourite Racket Sport Home (englandrugby.com) Benson, Roy and Connolly, Declan (2019); Heart Rate Training.
4	Tennis Golf Table Tennis	The Official Home of Tennis For Britain LTA The structure of england golf - England Golf Hodges, Larry (2013); Table Tennis for Thinkers
5	Athletics	Carr, Gerry (1999); The Fundamentals of Track and Field British Athletics Home - English Schools' Athletic Association (esaa.org.uk)
6	Cricket Rounders	England and Wales Cricket Board (ECB) - The Official Website of the ECB Correa, Mariana (2016); 3 Months to Become an Amazing Cricket Player. Rounders England Connecting People Through Rounders



Ethics, Philosophy & Citizenship

Subject: EPC (KS3 only)

What can students do to further develop their skills in this subject area?	
KS3	Read independently through the reading list available for EPC. Think about the 6 topic areas in each year (7/8/9) and discuss these different topics with others outside of the classroom.
What websites could students visit to support the curriculum?	
KS3	There is so much subject content out there that it would be impossible to select specific websites to support this area of the curriculum. We would suggest that you search via Google, the actual topic you are studying in each year group in each half term (see table below) and add the phrase “for schools and students” at the end of your search title: For example – “Islam for schools and students” “Puberty for schools and students.”
How can parents/carers help and what can be done at home?	
KS3	Support your child by having discussions at home about the topic being taught each half term. Ask questions like: “What are you doing in your EPC lessons at the moment?” “What topic are you studying in EPC this half term?” “Talk to me for 5 minutes about the topic you are learning about in your EPC lessons.” “Tell me 10 facts you have learnt from your EPC lessons so far this half term/term/year.”

Green highlighted = RE topics

HT	Week	Year 7	Year 8	Year 9
		Personal development – Hygiene, puberty and drugs	Responsibility as a citizen	Judaism
	1	Hygiene	British values and principles	What is Judaism?
	2	Puberty	The UK and identity	Who was Abraham?
	3	What are drugs?	The UKs changing population	Why were the Jews persecuted?
	4	Effects of drugs	Values in democratic society	Why did the persecution worsen?
	5	Smoking *NELC INTENT smoking prevention lesson 1	*NELC INTENT smoking prevention lesson 1	What was life like in the concentration camps?
	6	Energy drinks	Multiple identities The media	What are modern problems for Jewish people?
	7	Alcohol + mini assessment	Press regulation and censorship + mini assessment	The Holocaust – Overview + mini assessment
		British values and the media	Islam	Changing bodies
	1	What are British values?	What is Islam? The life of Mohammed	Healthy living – Diet and exercise
	2	Identity	The 5 pillars of Islam	Healthy living – Smoking, energy drinks, piercings and tattoos
	3	UK identity	Salat and Sawm	Adolescent changes – Males and females
	4	The role of the media	Zakat and Hajj	The female menstrual cycle
	5	MP expenses scandal	The Mosque and Quran	Mental and emotional health
	6	Citizen journalism	The role of the family	FGM
	7	International organisations + mini assessment	ISIS + mini assessment	From birth to old age + mini assessment
		Christianity	Personal development – Sexual health	Prejudice and equality
	1	What do Christians believe?	Relationship pressure	What is prejudice and equality?
	2	Who was Jesus?	Risky behaviour	Prejudice and equality in life
	3	Was Jesus an ordinary man?	Contraception and misconceptions	Positive discrimination
	4	The Church	STIs	Prejudice, discrimination and equality
	5	The Bible	HIV and AIDS	LGBTQI+ and Pride
	6	The betrayal of Jesus + mini assessment	Consent + mini assessment	Self-esteem and awareness + mini assessment
		Careers	Careers	Buddhism
	1	Personal skills and qualities	Personal skills and qualities	Who was the Buddha?
	2	Careers	Fake news and Google	What rules do Buddhists follow?

	3	Stereotypes	Options at the end of Year 9	Why do we have crime?
	4	*NELC INTENT smoking prevention lesson 2	*NELC INTENT smoking prevention lesson 2	CCE, County lines and CSE
	5	Employability and enterprise Interview skills	Post 16 choices, apprenticeships and higher education	What makes people commit crimes?
	6	Planning ahead action plan + mini assessment	CVs and preparing for interviews. Planning ahead action plan	How would a Buddhist respond to crime? + mini assessment
5		Sikhism	Evil and suffering	Early life
	1	Guru Nanak	Is there a God? Did God design the world?	The value of life
	2	The Khalsa	God and evil	The quality of life
	3	The five Ks	God and the Holocaust	When does life begin?
	4	Can we treat everyone the same?	Can we explain evil?	Abortion and the law
	5	Guru Granth Sahib	Christian and Jewish responses to evil and suffering	Abortion rights and options instead of abortion
	6	Gurdwara + mini assessment	Buddhist responses to evil and suffering + mini assessment	Foster care and foster parenting + mini assessment
6		Is religion a power for peace or conflict?	Hinduism and emotional health	Relationships
	1	Causes of war	Hindu Gods and key figures	Types of relationships
	2	What is a just war?	Places of worship, religious books and teachings	Sexuality
	3	Mohammed Ali – refusal to fight	Way of life – Religion comparisons	Age of consent
	4	Sikhism and conflict	What is emotional health? Gender stereotypes and body image	Parenting
	5	Sikhism and peace	Depression and self-harm	Christian weddings and divorce
	6	End of year assessment	Resilience and stress	Alternative faith weddings
	7	(The year ahead – next academic year – hopes, fears, worries and action plan)	End of year assessment	End of year assessment

Wider Reading

What is wider reading and how will it stretch and challenge you? [What does 'wider reading' mean? : Unifrog Blog](#)

Subject: EPC

Year 7		
Half term	Topic	Text
1	Hygiene, puberty and drugs	Cutie Sue Fights the Germs, The Boy Files: Puberty, Growing Up and All That Stuff, Girl Files: All About Puberty & Growing up, Drug Education (Healthy Schools) It's Perfectly Normal: Changing Bodies, Growing Up, Sex, Gender, and Sexual Health
2	British values	It's the Law! (British Values)
3	Christianity	The Bible
4	Careers	Career Planning for Teens: Discover The Proven Path to Finding a Successful Career That's Right for You!
5	Sikhism	Sikhism (KS3 Knowing Religion)
6	Is religion a power for peace or conflict?	GCSE English AQA Poetry Guide - Power & Conflict Anthology

Year 8		
Half term	Topic	Text
1	Responsibility as a citizen	Citizenship Education for Key Stage 3
2	Islam	Islam (KS3 Knowing Religion)
3	Sexual health	It's Perfectly Normal: Changing Bodies, Growing Up, Sex, Gender, and Sexual Health
4	Careers	Career Planning for Teens: Discover The Proven Path to Finding a Successful Career That's Right for You!
5	Evil and suffering	Why Suffering and Evil If God Is Sovereign, Good, and Loving: Finding Pieces to Life's Greatest Puzzle
6	Hinduism and emotional health	Hinduism (KS3 Knowing Religion)

Year 9		
Half term	Topic	Text
1	Judaism	Judaism (KS3 Knowing Religion)
2	Changing bodies	It's Perfectly Normal: Changing Bodies, Growing Up, Sex, Gender, and Sexual Health
3	Prejudice and equality	The Equality Swing: A Story About Equality, Kindness, and Preventing the Spread of Racism, Diversity, and Prejudice
4	Buddhism	Buddhism (KS3 Knowing Religion)
5	Early life	It's Perfectly Normal: Changing Bodies, Growing Up, Sex, Gender, and Sexual Health
6	Relationships	It's Perfectly Normal: Changing Bodies, Growing Up, Sex, Gender, and Sexual Health