



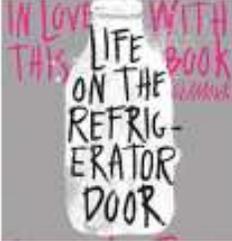
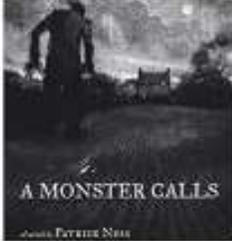
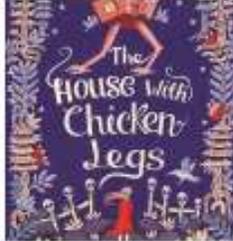
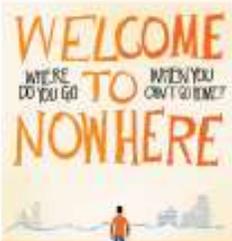
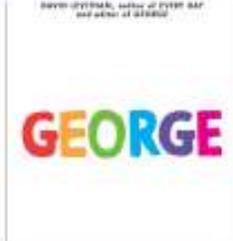
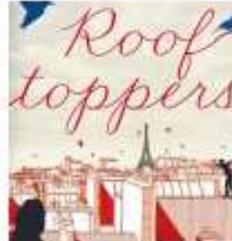
Extended Learning

The King David High School aims to foster young people who are curious, enthusiastic and have a genuine love of learning.

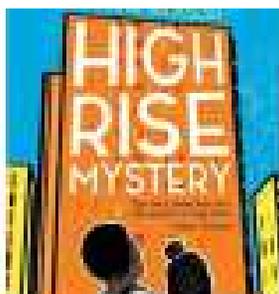
Extended learning and reading around the subject fires students' enthusiasm, improves their achievement, helps them take control of their own education and develops the independence that is the foundation for lifelong learning.

Year 7 to Year 9

Reading for pleasure: recommended reads for year 7

 <p>Life On The Refrigerator Door - Alice Kulpers</p> <ul style="list-style-type: none">• Sad but in the best way!• Told entirely through notes between a mum and her daughter• A fast paced 'quick read'	 <p>A Monster Calls - Patrick Ness</p> <ul style="list-style-type: none">• Genre defying brilliant book!• Has won LOTS of awards for brilliant writing• About loss, being angry, bullying, fairytales and so much more!	 <p>The House with Chicken Legs - Sophie Anderson</p> <ul style="list-style-type: none">• Carnegie Shortlisted• Based on Baba Yaga Folktales• Imaginative with great themes of friendship, destiny and a house with a mind of its own!	 <p>The Song From Somewhere Else - A F Harrold</p> <ul style="list-style-type: none">• Magical realism perfect for fans of Roald Dahl and Neil Gaiman.• A brilliantly atmospheric and poignant story• About finding friendship where you least expect it
 <p>Welcome To Nowhere - Elizabeth Laird</p> <ul style="list-style-type: none">• Best book for empathy• Great characters and plot• Based on real life accounts of life as a Syrian refugee	 <p>Smile - Raina Telegmeier</p> <ul style="list-style-type: none">• Graphic novel (comic book)• About life with braces• Funny & heartwarming it's unlike anything you've read before	 <p>George - Alex Gino</p> <ul style="list-style-type: none">• Simply told but powerful• Warm, funny and inspiring• "When people look at George, they think they see a boy. But she knows she's not a boy. She knows she's a girl."	 <p>Roof Toppers - Katherine Rundell</p> <ul style="list-style-type: none">• Classic adventure• About life with braces• Funny & heartwarming it's unlike anything you've read before

Extended Learning



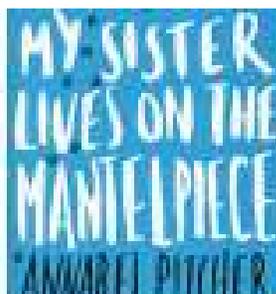
High Rise Mystery - Sharna Jackson

- First in a new mystery series!
- Set in the modern day about a murder in a London tower block.
- Smart & savvy female characters.



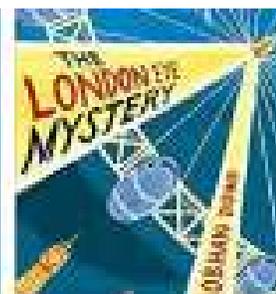
Once - Morris Gleitsman

- Set during WWII
- A young Jewish boy is determined to rescue his parents from the Nazis
- An emotional and vivid tale with 5 more books in the series



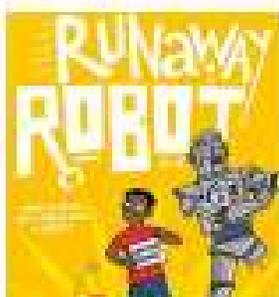
My Sister Lives on the Mantelpiece - Annabel Pitcher

- Heartwarming but also funny
- about the tragedy that tears a family apart after a terrorist attack, and how they rebuild their lives.



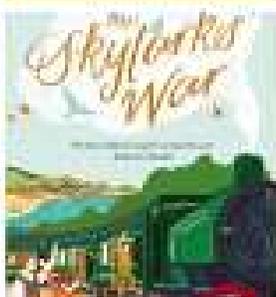
The London Eye Mystery - Siobhan Dowd

- Unpredictable thriller
- Tedious, engaging
- Its analytical mind becomes an asset to his and his peers together to solve the information surrounding their cousin's disappearance and begin to unravel the mystery



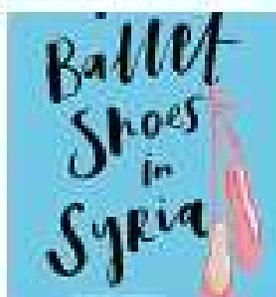
Runaway Robot - Frank Cottrell Boyce

- Zany adventure full of characters you'll love
- It will have you laughing out loud one minute, in tears the next!



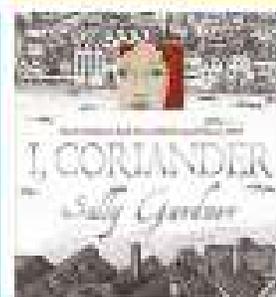
The Skylark's War - Hilary McKay

- Set against the back drop of WWI
- Engaging family drama
- Excellent and vivid characters



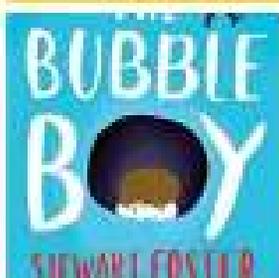
No Ballet Shoes in Syria - Catherine Bruton

- Wood Butler
- About championing the rights of refugees
- Beautiful, captivating writing



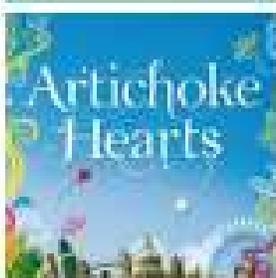
I, Coriander - Sally Gardner

- Fun historical fiction, fun fairy tale
- A terrific page-turner, involving kidnapping, murder and romance, as well as having an abundance of evil characters



The Bubble Boy - Stewart Foster

- The first ever medical condition you have always lived in a sterile room in a hospital, the boy changes drastically when a new nurse appears...
- Moving and gripping
- Brilliant for inspiring empathy



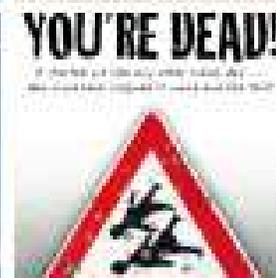
Artichoke Hearts - Sita Brahmachari

- Set in modern multicultural London
- Follows story of 12 year old Wes & his party Coordinator
- About families and grief and love and growing up



Ferry Jackson & The Lightning Thief - Rick Riordan

- Mythology and the modern world collide in the best form of this phenomenonly successful series
- The relevance of the world of a Greek God



Bang, Bang, You're Dead! - Marlinger Dweat

- When a mysterious gunman takes a class hostage, the rest of Miss's school is evacuated, but Miss is determined to stop him... she thinks she might know the gunman...
- Brilliant twist at the end



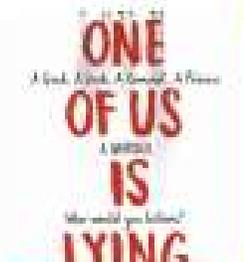
Extended Learning

Reading for pleasure: recommended reads for year 8



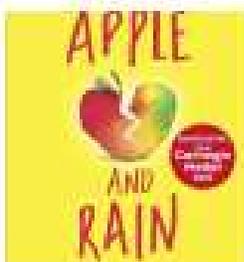
Thornhill - Pam Sney

- Told through a combination of wordless illustrated pages and diary entries this is an atmospheric and chilling read
- Compulsive Reading!



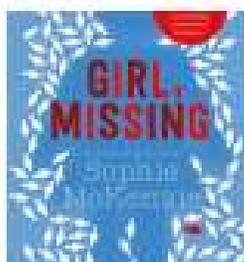
One Of Us Is Lying - Karen McManus

- Engaging twisted non-mystery with plenty of suspense
- 5 star review with 4.5 out of 5 stars. If anyone is a suspect, and everyone has something to hide.



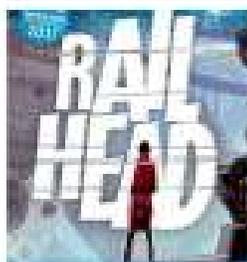
Apple And Rain - Sarah Crossan

- Compelling family drama - Apple's mum returns after 11 years away
- You will laugh & cry!
- Beautifully written with a sweetly helping of poetry sprinkled throughout



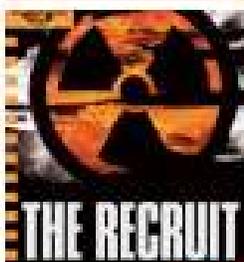
Girl Missing - Sophie McKenzie

- Gripping thriller, inspired by the real-life case of a toddler who went missing in the early '90s
- Compulsive Reading!



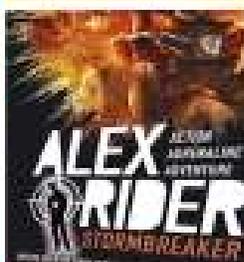
Rail Head - Philip Reeve

- Thrilling Sci-Fi adventure /conspiracy thriller
- Astonishing world building with talking trains & intergalactic travel
- Influently inventive



The Recruit (Cherub) - Robert Muchamore

- First in bestselling series
- Cherub agents are aged between 13 & 17, slipping under adult radar they get into that sends criminals and terrorists to jail.



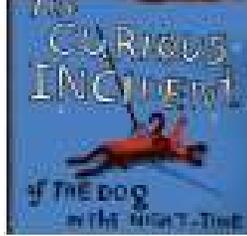
Alex Rider - Anthony Browne

- Stormbreaker is the first in this hugely popular series
- 14 year old Alex is forcibly recruited into MI6
- Teenage spy
- Wacky danger!



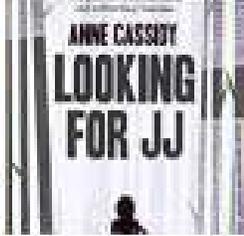
Jessica's Ghost - Andrew Norris

- Friendship
- Bullying
- Francis is the only one who has been able to see Jessica since she died...



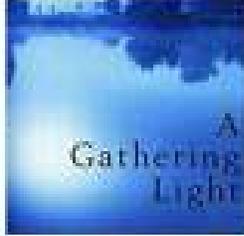
The Curious Incident of the Dog in the Night-Time - Mark Haddon

- Widely Read
- 15 year old Christopher has Asperger's & is obsessed with facts, science and libraries but finds it hard to understand other people



Looking For JJ - Anne Cassidy

- When 16 year old girl kills her best friend, she is convicted of manslaughter and locked away. Seven years later she is released on licence with a new identity
- Gripping & compulsive reading



A Gathering Light - Jennifer Donnelly

- Stunning story...
- Masterful
- Worthy
- Historical fiction
- Coming of age story with a touch of romance



Orbiting Jupiter - Gary S. Schmidt

- Stunningly written... the space setting is all done up inside the a pocket gem
- Your heart will ache for 14 year old Joseph and his quest to find his daughter's new planet

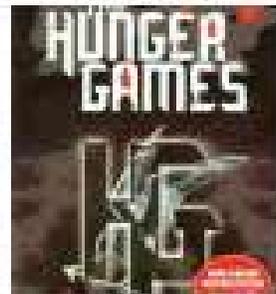


Extended Learning



Mortal Engines - Philip Reeve

- Futuristic and imaginative with a definite steampunk vibe
- Truism cities roam the world capturing and eating smaller towns
- Recent film version:



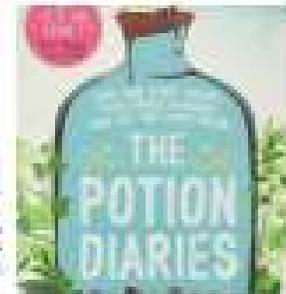
The Hunger Games - Suzanne Collins

- Definitely worth a read if you've not got round to it yet!
- Page turning dystopian fiction
- The book is better than the film!



Everything Everything - Nicola Yoon

- Story of secrets, lies, love and discovery
- Moody is allergic to the world; stepping outside her home could kill her. But Han Ohyun is real!



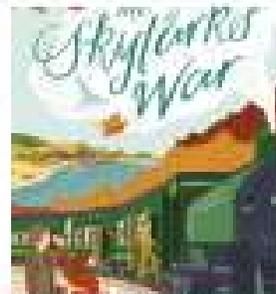
The Potion Diaries - Amy Alward

- Good old fashioned quest meets social media
- Page turning around the world adventure
- Unicorns, obnoxious mammals, and potion making



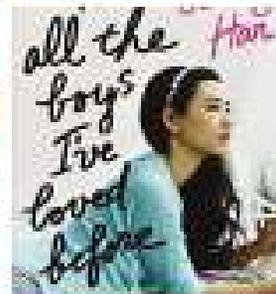
Itch - Simon Mayo

- An accidental accident gains here
- Science is his weapon. Clones to use his gadgets
- Adventure starts when Itch finds an alienant rat on the Periodic Table



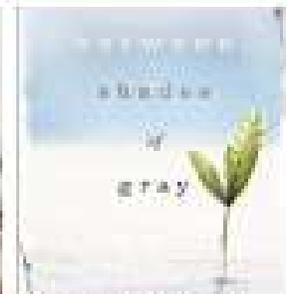
The Skybirds War - Hilary McKay

- Historical fiction following the loves and losses of a family growing up against the harsh backdrop of World War One
- Superb characters



All the Boys Love Lanae Before - Jenny Han

- Read the book that inspired the Netflix series
- When Lanae Jane's letters are mysteriously mailed out her love life goes from imaginary to out of control!



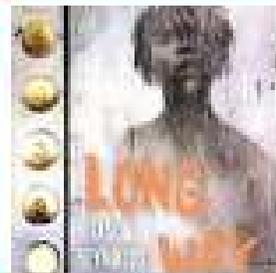
Between Shades of Gray - Ruta Sepetys

- Hearting and powerful Second World War novel
- Also been made into the film *Jules et Jim*
- Separate novel of writing the history you don't get taught at school



Wonder - R.J. Palacio

- Born with a visible facial abnormality, Auggie has been home-schooled by his parents for his whole life. Now, for the first time, he's being sent to a real school
- Funny, frank and very moving



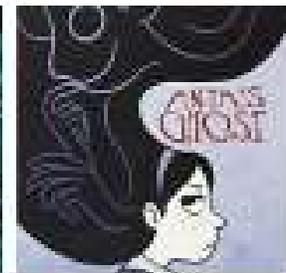
Long Way Down - Jason Reynolds

- WB's brother is shot dead. WB is ready to follow "the rules" and get revenge
- Tense & powerful - Carnegie shortlisted
- Told in real time, during a lift journey in a block of flats



Onion Lost - Alastair Chinaman

- Hugely gripping, with incredible twists
- Fast paced, action-packed story
- Unputdownable science fiction suspense - perfect for fans of *Star Wars*



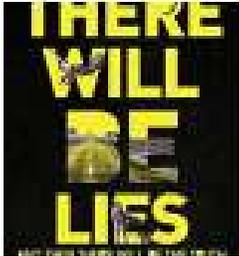
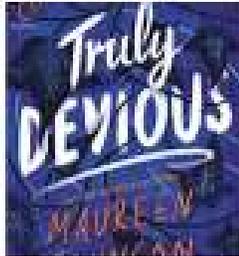
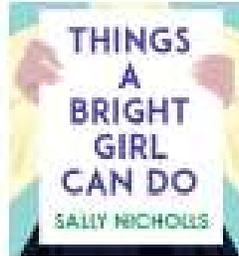
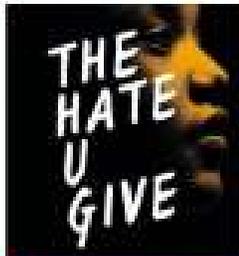
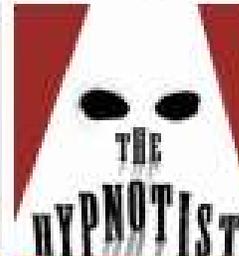
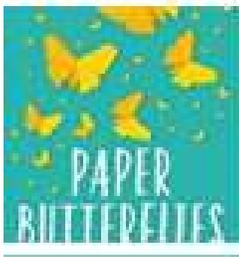
Aya's Ghost - Yara Braugel

- Graphic novel
- Of all the things Aya wanted to find at the bottom of an old well, a new friend was not one of them. Especially not a new friend who's been dead for a century...



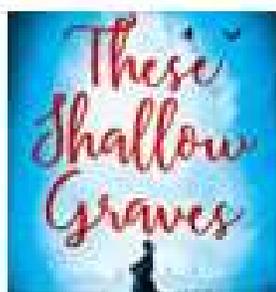
Extended Learning

Reading for pleasure: recommended reads for year 9+

			
<p>There Will Be Lies - Nick Lowe</p> <ul style="list-style-type: none">• If the person who keeps you safe also tells you lies, who can you trust?• Great twisty turny plot• Page turner (with talking coyotes!)	<p>Truly Devious - Maureen Johnson</p> <ul style="list-style-type: none">• Mysterious murder unfolds in this compulsively readable novel• Alternating past and present scenes• Multicultural, modern detective story	<p>Things A Bright Girl Can Do - Sally Nicholls</p> <ul style="list-style-type: none">• Carnegie Shortlisted• Hilarious look at the battle for women's rights from multiple (wonderful) narrators• Best book about WW1 without ever leaving the shores of Britain	<p>The Poet X - Elizabeth Acevedo</p> <ul style="list-style-type: none">• Verse Novel• About Slurs poetry and finding your voice• Dealt with first love, religion and creativity in a gripping and utterly believable way
			
<p>Moonrise - Sarah Crossan</p> <ul style="list-style-type: none">• Examines the effects of the death penalty• Powerfully told in free verse by a multi award winning author• Compelling but quiet read	<p>The Hate You Give - Angie Thomas</p> <ul style="list-style-type: none">• Amazing characterisation and dialogue• Well character story witness the final minutes of her unsaved friend at the hands of a police officer	<p>The Mercy Book - Lara Acopy</p> <ul style="list-style-type: none">• Heartbreaking read that may require tissues!• Gemma has a rare genetic disorder that will slowly start to steal her memories and then her health• Told through Gemma's notes to her future self	<p>The Hypnotist - Lisa Thompson</p> <ul style="list-style-type: none">• Set in the American South during the 1950s• Great powerful read with a strong anti racism message• Well a book of interest!
			
<p>Paper Butterflies - Lisa Heathfield</p> <ul style="list-style-type: none">• With an abusive stepmother and a stepfather, Jane feels like a butterfly trapped in a net• Deals with difficult subjects with empathy• There's a huge and unexpected plot twist	<p>Salt To The Sea - Ruta Sepetys</p> <ul style="list-style-type: none">• Gripping winning book• About the history that doesn't get taught in school - Baltic people made it being under threat• Deals by and about war and the human impact of it	<p>This is Where it Ends - Marika Mijangc</p> <ul style="list-style-type: none">• Told in real time by multiple narrators on a school shooting unfolds• Emotional and suspenseful• Diverse cast of characters	<p>The Knife Of Never Letting Go - Patrick Ness</p> <ul style="list-style-type: none">• Told through the only boy in a dystopian world. Ever since the cities were obliterated with the blue gas, Tris has been surviving his own kind, and has been watching his friends• Fast is an exciting & novel writing style

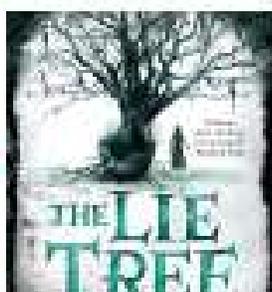


Extended Learning



These Shallow Graves - Jennifer Donnelly

- Page turning historical fiction that will keep you guessing right to the end
- Smart & savvy female character
- Immersive 19th century New York setting



The Lie Tree - Frances Hardinge

- Set just after the publication of 'The Origin of The Species' science and nature collide in this Victorian thriller
- Deliciously creepy
- Mystery and intrigue



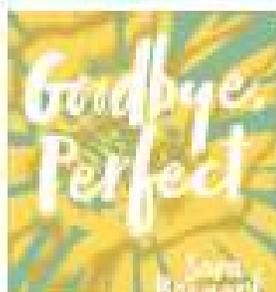
The Marshes We Deserve - Morcus Sedgwick

- Atmosphere and haunting
- An unusual read - a metafictional ghost story about the very process of writing a book
- Creative, witty and philosophical



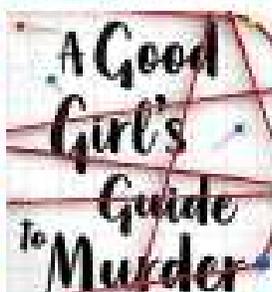
Internment - Samira Ahmed

- Set in a haunting near-future, looks back to her parents and forward into an uncertain future for Muslim American citizens
- A heart racing, eye-opening fight for freedom
- Challenges readers to fight against a world that seems to be so solidly built



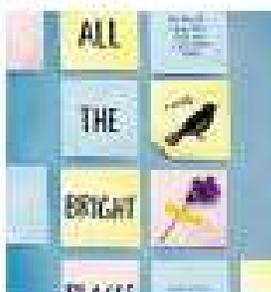
Goodbye Perfect - Sara Barnard

- Brilliant honest writing
- Set against the backdrop of stressful GCSE exams
- Explores ideas about perfection, love, friendship and family



A Good Girl's Guide To Murder - Holly Jackson

- Twisted-edge crime thriller
- You'll like this if you enjoyed One Of Us Is Lying
- Compulsively readable and elegantly plotted



All The Bright Places - Jennifer Wynn

- A compelling and beautiful story about a girl who learns to live from a boy who wants to die
- Honest & poignant
- Film adaptation due 2020



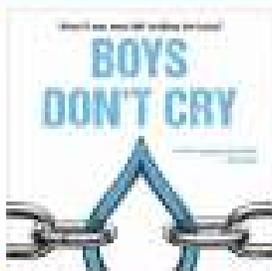
Furious Thing - Jenny Downham

- Explores the mental ways a girl's sense of self can be whittled away and what might happen when she fights back
- It's a book about being brave, about being angry and about wanting to



Birthday - Meredith Russo

- Tell us one day every year, over six years, this is a story about how change pulls people apart... and how love brings them back together
- A beautifully written contemporary coming of age story



Boys Don't Cry - Malorie Blackman

- Courtney is waiting for his A-level results to arrive in the post, but what he gets instead is an envelope on the doorstep with a baby she says is his
- Succinct and sensitive look at the institutional failure of teenage fatherhood



Ketchup Clouds - Anabel Pike

- A girl with a guilty conscience writes four criminal death notes in America
- Reads like a thriller & delivers with a twist
- A gripping and moving story about secrets, lies and growing up



Six Of Crows - Leigh Bardugo

- Sweeping fantasy epic
- Queens Eleven set in a Game Of Thrones-esque world
- Great ensemble cast & page turning action



Extended Learning

Computing

Computer Applications (free resources):

- Logo - <http://www.transum.org/software/Logo>
- MonkeyJam - <http://monkeyjam.org/>
- SQL - <http://sqlzoo.net/>

Computer Programs (free resources):

- BlueJ - <http://www.bluej.org/>
- BYOB - <http://byob.berkeley.edu>
- Greenfoot - <http://www.greenfoot.org/door>
- Kodu - <http://www.microsoft.com/en-us/download/details.aspx?id=10056>
- MIT App Inventor - <https://sites.google.com/site/appinventor>
- Pygame - <http://www.pygame.org/download.shtml>
- Python - <http://www.python.org>
- Scratch - <http://scratch.mit.edu>
- SmallBasic - <http://smallbasic.com>
- Visual Studio - <http://www.visualstudio.com/en-US/products/visual-studio-express-vs>

Hardware:

- Gadgeteer - <http://research.microsoft.com/en-us/projects/gadgeteer/default.aspx>
- Raspberry Pi - <http://www.raspberrypi.org/>

General Resources:

- Bletchley Park - <http://www.bletchleypark.org.uk>
- British Informatics Olympiad - <http://www.olympiad.org.uk/>
- Computing at School - <http://www.computingatschool.org.uk>
- Computing Cipher Challenge - <http://www.cipher.maths.soton.ac.uk/>
- CryptoClub - <http://www.cryptoclub.org/>
- Elite Engineering Programme for Schools - <http://www.eep-schools.org.uk/about-us/>
- E-Safety - http://www.thinkuknow.co.uk/11_16/
- Manchester Museum of Science and Industry (MOSI) - <http://www.mosi.org.uk>
- Manchester University Department of Computing - <http://www.cs.manchester.ac.uk>
- National Media Museum - <http://www.nationalmediamuseum.org.uk/>
- National Museum of Computing - <http://www.tnmoc.org>
- STEMNET - <http://www.stemnet.org.uk>
- Teach ICT - <http://www.teach-ict.com/>
- Unity (School Portal) - <http://unity.kdhs.org.uk/>
- WISE - <http://www.wisecampaign.org.uk/about-us>
- Young Rewired State - <http://youngrewiredstate.org/>



Extended Learning

Modern Foreign Languages (French and Spanish)

"A different language is a different vision of life."

Federico Fellini

Books/films

	French	Spanish
Films	Le Petit Prince - Antoine de Saint-Exupéry Le petit Nicolas film de Laurent Tirard Kirikou et la sorcière - Michel Ocelot Kirikou et les animaux sauvages - Michel Ocelot. Boule et Bill Belle et Sébastien Les Choristes La Grande Vadrouille Bienvenue chez les Ch'tis	Valentin Voces Inocentes El misterio de pez
Books	Le petit Nicolas de René Goscinny BD Astérix et Obélix BD Boule et Bill	http://www.gloriafuertes.org/index.php/literatura-inf http://www.milcuentos.com/ (interactive stories) https://www.storyplace.org/es https://www.littleredlanguages.co.uk/ Stories and poems in French and Spanish

Languages Magazines (Years 7-11)

A variety of French (Bonjour, Ça Va and Chez Nous), Spanish (¿Qué Tal?) language magazines are available from your languages teachers- just ask!

<https://maryglasgowplus.com/subscribe>



Extended Learning

News Websites

French

www.1jour1actu.com (simplified news stories for children in French)

Spanish

<https://www.periodicoelgancho.com/> (simplified news stories for children in Spanish)

BBC

Keep up to date with stories in Europe and Franco-, and Hispanophone world on

<http://www.bbc.co.uk/news/world/> and <http://www.bbc.co.uk/news/world/europe/> .

There are also stories in French about francophone Africa here: <http://www.bbc.co.uk/afrique> and hispanophone South America here: <http://www.bbc.co.uk/mundo>

Podcasts

<https://podcast.duolingo.com/>

Improve your language skills and gain new perspectives on the world by listening to easy-to-follow, fascinating true stories in French/Spanish.

DuoLingo

Use the following classroom codes to share your progress with your teacher.

French - **BWUKHZ**

Spanish - **VNJWZU**

Hebrew - **DBQCYR**

Italian - **DQBMEX**

German – **MQGXQK**

Mandarin- **WXCHJN**

Challenge essays

“A different language is a different vision of life.” – To what extent do you agree?

Design a poster outlining the importance of learning languages.

History

Reading

The best historians read a lot so that they know more about the subject and get better at using language. Try some of the following books (in rough chronological order):



Year 7

Terry Deary: *The Horrible Histories*



Extended Learning

- You've probably heard of these!

Jim Eldridge: Roman Invasion

- A novel set in the time of Roman Britain

Alex Scarrow: Time Riders

- Time-travelling adventures set in Ancient Rome and the Middle Ages

Kevin Crossley-Holland: Arthur and the Seeing Stone

- The first of a trilogy set in Medieval England

Joanna Courtney: The Conqueror's Queen

- The story of 1066 from the perspective of William's wife

Philippa Gregory: Changeling

- It's 1453 and all signs point to the end of the world

Sellar and Yeatman: 1066 and All That

- Classic comic account of British History

Year 8

Cynthia Harnett: Stars of Fortune

- What happened when Elizabeth I was imprisoned by Mary I?

Susan Cooper: King of Shadows

- A time travel adventure set in the world of Shakespeare

Celia Rese: Witch Child

- A horror mystery set in the sixteenth century witch hunts
-

Berlie Doherty: Children of Winter

- A village isolated by the plague in the 1600s

Jennifer Donnelly: Revolution

- A seventeen-year-old in Paris uncovers a diary from the French Revolution revealing the lost King of France

Stephen Crane: Red badge of courage

- A novel describing the cruelty of the American Civil War

Malorie Blackman: Noughts and Crosses

- An alternative history when Africans enslaved Europeans

Jacqueline Wilson: Hettie Feather and Sapphire Battersea

- Simple stories set in Victorian times

Berlie Doherty: Street Child

- The story behind the foundation of Dr Barnardo's children's homes



Extended Learning

Year 9

Simon Sebag Montefiore: *Monsters: History's most evil men and women*

Michael Morpurgo: *Private Peaceful, Warhorse*

- Novels set in the First World War

Erich Maria Remarque: *All Quiet on the Western Front*

- A description of the horrors of the First World War from the perspective of a German soldier in the trenches.

Harper Lee: *To kill a Mockingbird*

- A description of racial equality in 1930s America.

Anne Frank: The diary of Anne Frank

- The experiences of a Jewish girl during the Second World War.

Judith Kerr: *When Hitler Stole Pink Rabbit*

John Boyne: *The Boy in the Striped Pyjamas*

- The holocaust from the perspective of a young boy

Philippe Sands: *Ratline*

- A Nazi war criminal on the run

Roald Dahl: *Going solo*

- The true story of Dahl's experiences in Africa and then as a pilot during the Second World War.

Michelle Magorian: *Goodnight Mr Tom*

- The story of a young Second World War and the old man who cares for him.

Robert Westell: *The Machine Gunners*

- The adventures of a group of children in the North East of England during the Blitz.

Morton Rhue: *The Wave*

- An American high school experiment to understand Nazism gets out of hand.

George Orwell: *Nineteen Eighty-Four*

- An attack on totalitarianism

Tom Sharpe: *Riotous assembly*

- A novel set in South Africa under apartheid regime.

Vocabulary

Learn 10 new words from a dictionary: Try to use them in your writing or conversation this week!



Extended Learning

Challenge essays

Try one of these...

“History has been shaped by villains not heroes.” How far do you agree? Explain your answer.

“The First World War was the bloodiest war in History.” How far do you agree? Explain your answer.

“There is too much focus on wars in school History.” How far do you agree? Explain your answer.

“There is no point learning about the past.” How far do you agree? Explain your answer.

Or make up your own question using the style above

Local History

Do some research into local History. Visit a museum or historical site, or find out about members of your family.

Podcasts

History Hit

- Varied and entertaining podcasts from TV historian Dan Snow.

Programmes and Films

Watch one of these programmes or films. Think about how useful it is to historians (provenance and how far it agrees with your contextual knowledge of the period).

Blackadder

Glory

Testament of Youth



Extended Learning

Wipers Times

The Great Gatsby

The Boy in the Striped Pyjamas

Hope and Glory

Pearl Harbour

Jojo Rabbit

The Zookeeper's Wife

Warhorse

Valkyrie

Forrest Gump

JFK

The Imitation Game



History in the News

Find a story in a newspaper or news website that relates to History. How does it link to the past

Ivrit

Reading

Read the *Bereshit* newspaper (on SharePoint – Language Department- Ivrit- Bereshit) – an introductory Hebrew newspaper for beginners.

Read an article, summarise the main focus of the article and rewrite it in your own words. Be ready to present it in front of the class.

You will be reading about the most contemporary and widely-used Hebrew. The articles focus on Israeli and international current events, as well as holidays and Jewish values. You will read proper Hebrew as well as Hebrew slang words, commonly used phrases and even words that have been adopted from other languages. The newspaper includes Hebrew-English dictionary of the new words which- (The dictionaries also include transliteration which helps to know how to read the words properly).

- For advanced readers use <https://hadshon.edu.gov.il/> to read the daily news.

Vocabulary

- Download the free app Duolingo or go on <https://www.duolingo.com/> and learn Hebrew in a fun and interactive way.



Extended Learning

Films- Listening extension

- Films on YouTube
Ushpizin אושפיזין
Salach Shabati סלאח שבאתי
- Series on Netflix
Shtisel שטיסל
Fauda פאודה
Remember to listen for details and focus on words you know. Ignore what you don't know and try to understand it without having to read or use the subtitles .
- Alternatively watch films in English but with Hebrew Subtitles
e.g. *In front of the class* בחזית הכיתה

Music

- Listen to Reshet Gimel to Israeli Music on
<https://www.kan.org.il/live/radio.aspx?stationid=9>
- Watch on YouTube to Israeli singers and learn a whole song in Ivrit
E.g.
 1. Sttatic and Ben El- Silsulim סטטיק ובן-אל -סילסולים
 2. Omer Adam - Shnei Meshugaim שני משוגעים
 3. Arik-Einstein- Ani Ve' Ata , אריק איינשטיין - אני ואתה ,

Maths

Maths books and online resources

1. Nrich.maths.org is a website run by the University of Cambridge.

It provides thousands of free online maths resources for all school ages. This includes puzzle pages and articles.

Examples:

<https://nrich.maths.org/9469>

articles about various mathematical topics. <https://nrich.maths.org/books>

lists books suitable for all ages on the history of maths, mathematical puzzles and thinking mathematically. <https://nrich.maths.org/8516>



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live problems for all ages that you are invited to submit your solutions to online.
<https://maths.org/step/> online support programme for STEP. This is the entrance exam used by Cambridge and some other universities for entry to Maths and some other STEM courses.

Sixth Form students who are thinking of studying Maths at university would benefit from the Cambridge reading list:

<https://www.maths.cam.ac.uk/undergrad/admissions/files/reading-list.pdf>

2. Numberphile

Two Youtube channels. <https://www.youtube.com/user/numberphile> is accessible to a wide age range. The second channel goes into greater detail:

<https://www.youtube.com/numberphile2>

3. Maths Careers website

<https://www.mathscareers.org.uk/> has articles about Maths and how it is used in everyday life. Job profiles of people who use a lot of Maths in their work.

4. Plus

An online Maths magazine <https://plus.maths.org/content/> You can subscribe to it and receive an email update every two or three weeks. Like most online magazines you can follow it on social media as well. Plus is probably more suitable for KS4 and Sixth Form students.

5. Quanta

Quanta magazine is a Science and Maths magazine aimed mainly at Sixth Form students.

<https://www.quantamagazine.org/about/>

Physics

The Magical Maze (Ian Stewart)

Fooled by Randomness (Nassim Nicholas Taleb)

The Infinite Book (John Barrow)

The Emperor's New Mind (Roger Penrose)

God Created The Integers (Stephen Hawking)

Why do Buses Come in Threes? (Robe Eastaway and Jeremy Wyndham)



Extended Learning

Science

BBC science news:

https://www.bbc.co.uk/news/science_and_environment

General

The Week is a good general summary of news and stories each week, and has a junior edition.

Lots of good advice on revision planning and technique is available here:

www.lifemoreextraordinary.com

www.bbc.co.uk/bitesize