

Reading List for Computer Science

KS3

Books

Y7, Y8

Lauren Ipsum - Carlos Bueno, 2011

Computational fairy tales - Jeremy Kubica

Y9

Isaac Asimov - I, Robot

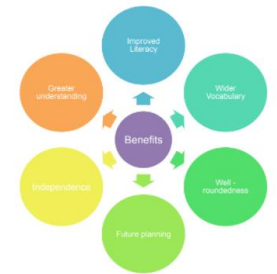
Series of short stories. One of which contains the first appearance of the famous 'Three Laws of Robotics'.

Computational fairy tales - Jeremy Kubica

Website Articles

These are posted on to the KS3 CS Google Classrooms under a 'News' topic.

The importance of reading



Year Group	Article	Web Address	Notes
7 & 8	Cyber Security	https://www.bbc.co.uk/bitesize/guides/zs87sbk/revision/1	BBC Bitesize
7	Examples of Weak and Strong Passwords	https://www.lifewire.com/strong-password-examples-2483118	Llifewire.com 11th September 2020
9	Fundamentals of Cyber Security	https://www.bbc.co.uk/bitesize/guides/znnny4j/revision/1	BBC Bitesize
9	An introduction to CyberFirst	https://www.ncsc.gov.uk/section/education-skills/11-19-year-olds	National Cyber Security Centre (NCSC)

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KS4

Books

Isaac Asimov - I, Robot

Series of short stories. One of which contains the first appearance of the famous 'Three Laws of Robotics'.

- if not read KS3

Isaac Asimov - The Caves of Steel

Introduces humanoid R. Daneel Olivaw

Hidden Figures – Margot Lee Shetterley

There Will Come Soft Rain – Ray Bradbury

I Sing the Body Electric – Ray Bradbury

Non Fiction Books

Inventive Minds: Marvin Minsky on Education (2019)

Once upon an algorithm - Martin Erwig, 2017

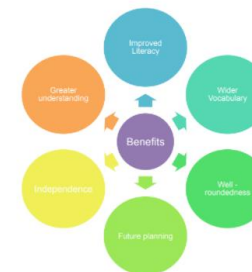
The new Turing omnibus: 66 excursions in computer science - AK Dewdney, 2003

Alan Turing: The Enigma - Andrew Hodges

Website Articles

These are posted on to the GCSE CS Google Classrooms under a 'News' topic.

The importance of reading



Article	Web Address	Notes
5 things you need to do to stop yourself getting hacked in 2021	https://www.wired.co.uk/article/how-to-avoid-hacking	www.wired.co.uk 2 January 2021

Adobe Flash Player is finally laid to rest	https://www.bbc.co.uk/news/technology-55497353	BBC By Chris Fox Technology reporter 2nd January 2021
Five banking scams to watch out for in 2021	https://www.which.co.uk/news/2020/12/5-banking-scams-to-watch-out-for-in-2021	www.which.co.uk 30th December 2020
How tech is reinventing healthcare	https://www.wired.co.uk/article/future-of-health	www.wired.co.uk 29th December 2020 Complex reading.
The biggest tech stories of a disastrous 2020	https://www.cnet.com/news/the-biggest-tech-stories-of-a-disastrous-2020/	CNET.com 28th December 2020
Russia's global hacking efforts are going to unwind in 2021	https://www.wired.co.uk/article/uk-us-russia-hacking	www.wired.co.uk 27th December 2020
Why Amazon knows so much about you	https://www.bbc.co.uk/news/extra/CLQYZENMBI/amazon-data	BBC Accessed 26th December 2020 Long read.
The US has suffered a massive cyberbreach. It's	https://www.theguardian.com/commentisfree/2020/dec/23/cyber-attack-us-security-protocols	www.theguardian.com

hard to overstate how bad it is		23rd December 2020
Carmakers compete to keep you entertained	https://www.bbc.co.uk/news/business-54336423	BBC 8th October 2020
Excel: Why using Microsoft's tool caused Covid-19 results to be lost	https://www.bbc.co.uk/news/technology-54423988	BBC 5th October 2020
How Search Algorithms Are Changing the Course of Mathematics	https://getpocket.com/explore/item/how-search-algorithms-are-changing-the-course-of-mathematics?utm_source=pocket-newtab-global-en-GB	GetPocket.com Accessed 27th September 2020 Very complex, but shows how algorithms are used and are not computer programs.
The Moon, Mars and Beyond	https://www.theguardian.com/science/2020/jan/05/space-race-moon-mars-asteroids-commercial-launches	The Guardian, 5 th January 2020
Cloud backup options for mitigating the threat of ransomware	https://www.ncsc.gov.uk/blog-post/cloud-backup-options-for-mitigating-the-threat-of-ransomware	National Cyber Security Centre (NCSC)