

COMPUTING

CULTURAL CAPITAL MENU

	Intro to Computing and Esafety	System Security and Networks	Data Representation	System Architecture, Memory and Storage	Programming
1	Create a fact file about an important computer scientist.	Computer Viruses - where did it all begin?	Binary is base 2 - but what other number systems exist and what uses do they have?	Who was John Von Neumann and what impact did he have on computing?	Visit Quarry Bank Mill - how do Jacquard Looms relate to computer programs?
2	Go to MOSI and write what you found out about Manchester Baby.	Why are hackers referred to white hat hackers or black hat hackers?	Why are the first 3 storage units called bit, nibble and byte?	How will quantum computing impact our world?	Why are problems with code referred to as "bugs"?
3	X (formerly Twitter) may be removing the block feature - how will that impact user safety?	What is a cookie and why should you think carefully before agreeing to them?	What is a Qbit?	Touch screen and voice recognition - how will input devices change in the future?	If AI can write programs, why should we learn to code?
4	Has social media brought us closer as a society, or split us further apart?	What is a data scraper?	Why does analogue audio sound richer and better than digital sound?	Why is there a shortage of computer chips?	Why do most programming languages use English keywords, and are there any that don't?
5	How will the Online Safety Bill change how we experience the internet?	What is the difference between the internet and the world wide web and who invented them?	How do new emojis get added? Who is responsible for the list of recognised emojis?	Could we ever store our data on DNA?	What are the advantages and disadvantages of involving technology more and more in our lives?

COMPUTING DEPARTMENT CULTURAL CAPITAL MENU

	Watch	Listen	Read
1	Netflix - Coded Bias (12)	TED Tech Podcasts	New Scientist Magazine (available in the canteen)
2	Netflix - High Score (15)	Understand Podcast (BBC Radio 4)	BBC Tech News (Website)
3	Netflix - The Imitation Game (12)	Tech Tonic Podcast	Secret Coders (Book) by Gene Luen Yang
4	Netflix - The Social Dilemma (12)	The Future of Everything Podcast	The Verge (Website)
5	Netflix - The future of (12)	<p>Find anything else that you find interesting? Let Miss Collins or Mr Worswick know.</p>	
6	Youtube - Tom Scott		
7	Youtube - Crash Course Computer Science		
8	Amazon Prime - Algorithms: Secret Rules of Modern Living		
9	BBC iPlayer - Computer Says No		
10	BBC iPlayer - Click		

CREATIVE IMEDIA

CULTURAL CAPITAL MENU

1	CGI - where did it start and where are we now?	Stereotypes - why can they be harmful?	Typography - what terms are still used from the days of the printing press?
2	Why are there so many different image file types?	Will AI kill off the creative industry?	Is print media a thing of the past?
3	Are character tropes in comics helpful or do they fuel stereotypes?	What was the first type of animation?	What is the rule of thirds and is it important?
4	Who is responsible for the devising the Gantt Chart?	How has advertising changed in the last 100 years?	What are the ethical issues surrounding airbrushing photos?
5	Changing a visual identity - which brands did it work for, and which did it not?	From where do comic strips originate?	What's in a name - why do brand names matter?

INTERESTED IN WATCHING, LISTENING OR
READING MORE?

CHECK OUT SOME OF THE RESOURCES IN THE
COMPUTING SECTION