

ICT & COMPUTER SCIENCE

SUPER CURRICULUM ACTIVITIES

WEBSITES:

- Teach ICT: Website: <https://www.teach-ict.com/>
- BBC Bitesize - Computer Science: Website: <https://www.bbc.co.uk/bitesize/subjects/z34k7ty>
- Computer Science Field Guide: Website: <https://www.csfieldguide.org.nz/>
- Computerphile: Website: <https://www.youtube.com/user/Computerphile>
- National Museum of Computing: Website: <https://www.tnmoc.org/>

BOOKS:

- "Python Crash Course: A Hands-On, Project-Based Introduction to Programming" by Eric Matthes: Website: <https://nostarch.com/pythoncrashcourse2e>
- "Hello World!: Computer Programming for Kids and Other Beginners" by Warren Sande and Carter Sande: Website: <https://nostarch.com/helloworld>
- "Code: The Hidden Language of Computer Hardware and Software" by Charles Petzold: Website: <https://www.charlespetzold.com/code/>
- "Invent Your Own Computer Games with Python" by Al Sweigart: Website: <https://inventwithpython.com/invent4thed/>
- "Cracking the Coding Interview: 189 Programming Questions and Solutions" by Gayle Laakmann McDowell: Website: <http://www.crackingthecodinginterview.com/>

SPECIALIST MAGAZINES/ARTICLES/JOURNALS:

- "IEEE Spectrum": Website: <https://spectrum.ieee.org/>
- "Communications of the ACM": Website: <https://cacm.acm.org/>
- "The MagPi": Website: <https://magpi.raspberrypi.org/>
- "Make: Magazine": Website: <https://makezine.com/>
- "Codecademy Articles": Website: <https://www.codecademy.com/articles>

PODCASTS:

- "Codebreaker" - This podcast explores the intersection of technology and society. Website: [Codebreaker Podcast](#)
- "The Turing Podcast" - This podcast dives into various aspects of computer science. Website: [The Turing Podcast](#)
- "Command Line Heroes" - This podcast explores the history and evolution of the tech industry. Website: [Command Line Heroes](#)
- "Syntax - Tasty Web Development Treats" - This podcast covers web development topics and trends. Website: [Syntax.fm](#)
- "Talk Python to Me" - This podcast focuses on Python programming. Website: [Talk Python to Me](#)

FILMS AND DOCUMENTARIES:

- "The Social Network" (2010) Film Website: <https://www.imdb.com/title/tt1285016/>
- "The Imitation Game" (2014) Film Website: <https://www.imdb.com/title/tt2084970/>
- "The Code: Story of Linux" (2001) Documentary Website: <https://www.imdb.com/title/tt0308808/>
- "Deep Web" (2015) Documentary Website: <https://www.imdb.com/title/tt3312868/>
- "Lo and Behold: Reveries of the Connected World" (2016) Documentary Website: <https://www.imdb.com/title/tt5275828/>

YOUTUBE CHANNELS:

- Craig n Dave Link: <https://www.youtube.com/user/craigndave/videos>
- Crash Course Computer Science Link: <https://www.youtube.com/playlist?list=PL8dPuuaLjXtNlUrzyH5r6jN9uIlgZBpdo>
- The Coding Train Link: <https://www.youtube.com/user/shiffman>
- Computerphile Link: <https://www.youtube.com/user/Computerphile>
- FreeCodeCamp Link: <https://www.youtube.com/c/Freecodecamp>

MOOCS:

- Harvard CS50's Introduction to Computer Science Link: <https://cs50.harvard.edu/x/2021/>
- Codecademy Link: <https://www.codecademy.com/>
- Coursera: Python for Everybody Link: <https://www.coursera.org/specializations/python>
- edX: Introduction to Computer Science and Programming Using Python Link: <https://www.edx.org/professional-certificate/introduction-to-computer-science-and-programming-7>
- Unifrog Example: Introduction to Cybersecurity Link: (Link provided by Unifrog)

ONLINE SEMINARS/LECTURES:

- Online Seminars/Lectures: TED Talks - Technology Link: <https://www.ted.com/topics/technology>
- Google Developers Live Link: <https://developers.google.com/events>
- Microsoft Virtual Academy Link: <https://mva.microsoft.com/>
- Harvard University CS50 Guest Lectures Link: <https://cs50.harvard.edu/lectures>
- YouTube EDU Link: <https://www.youtube.com/education>

SOCIAL MEDIA ACCOUNTS:

- Code.org
 - Instagram: <https://www.instagram.com/codeorg/>
 - Twitter: <https://twitter.com/codeorg>
- GitHub Education
 - Instagram: <https://www.instagram.com/githubeducation/>

- Twitter: <https://twitter.com/GitHubEducation>
- Adafruit Industries
 - Instagram: <https://www.instagram.com/adafruit/>
 - Twitter: <https://twitter.com/adafruit>
- MIT CSAIL (Computer Science and Artificial Intelligence Laboratory)
 - Instagram: <https://www.instagram.com/mit.csail/>
 - Twitter: https://twitter.com/MIT_CSAIL
- Girls Who Code
 - Instagram: <https://www.instagram.com/girlswhocode/>
 - Twitter: <https://twitter.com/girlswhocode>

PLACES TO VISIT:

- The Museum of Liverpool: <https://www.liverpoolmuseums.org.uk/museum-of-liverpool>
- The Tech Climbing Centre: <https://www.thetechclimbingcentre.com/>
- University of Liverpool's Department of Computer Science: <https://www.liverpool.ac.uk/computer-science/>
- Museum of Science and Industry (MOSI) - Manchester: <https://www.msimanchester.org.uk/>
- Catalyst Science Discovery Centre - Widnes: <https://www.catalyst.org.uk/>

LOCAL CLUBS OR SOCIETIES:

- Wirral Raspberry Jam: <https://www.wirraljam.org.uk/>
- Wirral Code Club: <https://www.codeclub.org.uk/>
- Wirral STEM Hub: <https://www.wirralstem.co.uk/>
- Wirral Libraries Code Club: <https://www.wirrallibraries.net/events/>

CHALLENGES AND COMPETITIONS:

- UK Bebras Challenge: <https://bebras.uk/>
- Cyber Discovery: <https://www.joincyberdiscovery.com/>
- The Big Bang Competition: <https://www.thebigbangfair.co.uk/competition/>
- UK Robotics Week Challenges: <https://www.roboticsweek.uk/challenges/>
- TeenTech Awards: <https://www.teentech.com/teentech-awards/>