



**KING EDWARD VI  
CAMP HILL  
SCHOOL FOR BOYS**

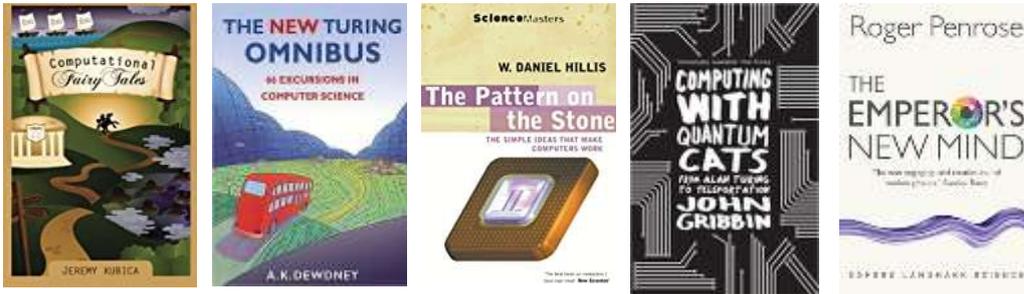


# **KS4 Supercurricular COMPUTING**



For up to date information on supercurricular opportunities in Computing join the department's Computing Society Google Classroom by emailing your Computing teacher and follow the department Twitter feed (@kech\_compsci).

## Reading



Computational Fairy Tales, J. Kubica

978-1477550298

The new Turing Omnibus: 66 Excursions in Computer Science, A.K. Dewdney

978-0805071665

The Pattern on the Stone: The Simple Ideas that Make Computers Work, D.Hillis

Computing with Quantum Cats, J. Gribbin

978-0552779319

The Emperor's New Mind, R. Penrose

978-0198784920

## Listening and viewing

BBC Click

<https://www.youtube.com/c/BBCClick/videos?app=desktop>

Computerphile

<https://www.youtube.com/user/Computerphile?app=desktop>

Inventions that changed the world

<https://www.youtube.com/watch?v=rTsHnxS5bg0>

Carrie Anne Philbin: Crash course in Computer Science

<https://www.youtube.com/watch?v=tplctygH29Q&list=PLq0Imqvdtkf50DOOpC47G5MXTc3GxUFC4>

TED Technology

<https://www.ted.com/topics/technology>

This Week in Tech podcast

<https://podcasts.apple.com/us/podcast/this-week-in-tech-video-large/id358612594>

Oxford University Computer Science podcasts

<https://podcasts.ox.ac.uk/series/computer-science>

Stack Overflow podcast

<https://stackoverflow.blog/podcast/>

Mr Brown CS

<https://www.youtube.com/channel/UCsBxhDfwURg-vQASN2ZeHwg>

New Scientist – Tech pages

<https://www.newscientist.com/subject/technology/>

## Competitions



Bebras (all years, open to all)

[Challenge.bebbras.uk](https://challenge.bebbras.uk)

TCS Oxford (all years, qualify via Bebras)

[Challenge.bebbras.uk](https://challenge.bebbras.uk)

Braben Cup (team based, Python programming)

[Persecoding.com](https://persecoding.com)

British Informatics Olympiad\*

<https://www.olympiad.org.uk/>

\* The Olympiad is technically difficult, but a great combination of maths and computer-based problem solving.

## Resources

Learn HTML/CSS/Python

[W3schools.co.uk](https://www.w3schools.co.uk)

BBC Bitesize

<https://www.bbc.co.uk/bitesize/subjects/z34k7ty>

CAS TV

<https://www.youtube.com/user/computingatschool/videos>

Stack Overflow

<https://stackoverflow.com/>

MIT Intro to CS and Programming

<https://www.edx.org/course/introduction-to-computer-science-and-programming-7>

EDX programming / CS

<https://www.edx.org/learn/computer-programming>

Note: Some of the above may be blocked inside school.

## Following

@kech\_compsci

@SchoolCoders

@BBCClick

@TheGadgetShow

@guardiantech

@BBCTech

@Codecademy

@CompSciFact

## Doing

National Museum of Computing

[Tnmoc.org.uk](http://Tnmoc.org.uk)

CyberFirst Defenders & Futures

<https://www.ncsc.gov.uk/section/education-skills/schools>

Codecademy

<https://www.codecademy.com/catalog>

CyberFirst Advanced

<https://www.ncsc.gov.uk/section/education-skills/schools>