

Key debates:

- The development of the NCCE and its work to upskill teachers nationally
- 'Physical computing' within a school setting
- The gender issue – where are all the girls?

Who should I follow on Twitter?



There are many fantastic practitioners to follow on Twitter. These are just a few of the people whose ideas and practice I have found particularly useful.

Sue Sentence – @suesentance

Laura Sach - @CodeBoom

Simon Johnson - @clcsimon

Computing At School - @CompAtSch

National Center for Computer Science Education

- @WeAreComputing

Miles Berry - @mberry

James Robinson - @legojames

Sophie Scott- @binarygenius

Adam Baker - @mrbakerUK

Phil Bagge - @Baggiepr

CAS London - @cas_London_crc

Micro:Bit - @microbit.edu

Tim Head - @MrHeadPrimary

Jane Waite - @janewaite

Cat Lamin - @CatLamin

Donna Rawling - @DdR333

Penny Cater - @pennycater

Alan O'Donohoe - @teknoteacher

Neil Rickus - @computingchamps

William Lau - @mrlaulearning

Katie Vanderpere-Brown - @vanderpere

Join in #caschat every Tuesday at 8pm (term time)



Follow @CamTSNet for more
'subjects on a page'



On The Blogosphere

In his blog 'Look Who's Learning Too', London based secondary teacher of Computer Science William Lau shares both his experiences of teaching computer science and his excellent resources. What is wonderful about his work, is William's interpretation of pedagogy into practical resources for Computer Science educators.

<http://www.mrlaulearning.com/>

Another wonderful example of pedagogy and practice is James Robinson's 'Pedagogy Quick Read' series. James works as a Senior Learning Manager at the educational arm of the Raspberry Pi foundation. Each quick read is a digest of an aspect of pedagogical practice with practical worked examples for teachers to implement in their practice.

Paired Programming
Worked Examples
Cognitive Load Theory

If you are interested in an excellent resource for teaching, you should visit Computing 101. The website has a brilliant selection of posts containing free resources and challenges for both A level and GCSE. In particular, I really like their version of the [LMC](#) as it clearly shows the role of general purpose registers in the FDE cycle.

<https://www.101computing.net/>

The 'Computer Science Education Blog' is a brilliant source of information about academic research into teaching computer science. It is written by Mark Guzdial, a Professor at Michigan University.

<https://computinged.wordpress.com/>

What should I read?

Hello World magazine is a free publication issued three times a year and available online to download. Each magazine is packed with articles and resources for Computing teachers that support their classroom practice and provide ideas and inspiration.

<https://helloworld.raspberrypi.org/>

The Computing at School community (CAS) is free to join. CAS is a national network that provides a sharing platform of resources as well as local communities of practice, where teachers can meet to receive free CPD, an opportunity to share ideas and network. Find your local CAS community on the website or just sign up to the online community and post a question.

<https://community.computingatschool.org.uk/dor>

Algorithms to Live By – The Computer Science of Human Decisions (Christian and Griffiths) is an excellent read for Computing teachers. It is really very useful to enrich your subject knowledge and provides many excellent examples that could be adapted for teaching.

<https://www.amazon.co.uk/Algorithms-Live-Computer-Science-Decisions-ebook/dp/B015DLA0LE>

Computer Science Education (Edited by Sentence, Barendsen and Schulte) is a fantastic summary of Computer Science education and a must read for computer science teachers. The book draws together expert knowledge on both what is Computer Science and how to teach it, in easily digestible format peppered with practical advice.

<https://www.amazon.co.uk/Computer-Science-Education-Perspectives-Teaching/dp/1350057118>

The National Centre for Computing Education has many free online courses for teachers of primary and secondary looking to develop their knowledge. Alevel teachers can also find a fantastic free resource for students in the new Isaac CS platform.

<https://teachcomputing.org/>

<https://isaacomputerscience.org/>