

# Resources

## Websites

Computing At School (CAS) host a large resource bank of plans, resources and activities. CAS is free to join: <http://community.computingschool.org.uk/door>.

The BCS Barefoot Computing project is developing concept guides and exemplar activities. Free, but registration required: <http://barefootcas.org.uk/>.

Naace (the ICT association) and CAS have developed joint guidance on the new computing curriculum: [www.computingschool.org.uk/index.php?id=primary-national-curriculum-guidance](http://www.computingschool.org.uk/index.php?id=primary-national-curriculum-guidance).

New Zealand based CS Unplugged produce an excellent collection of resources exploring computer science ideas through classroom- rather than computer-based activities: <http://csunplugged.org>.

CAS CPD Co-ordinator, Mark Dorling, has made available a large collection of lesson plans and other resources through the Digital Schoolhouse project for London schools: [www.digitalschoolhouse.org.uk/](http://www.digitalschoolhouse.org.uk/).

CAS Primary Master Teacher, Phil Bagge, has shared detailed lesson plans for many computer science and digital literacy topics: <http://code-it.co.uk/philbagge.html>.

A group of teachers and teacher trainers convened by the NCTL and chaired by Toshiba's Bob Harrison worked together to curate resources for initial teacher training for the computing curriculum: [bit.ly/ittcomp](http://bit.ly/ittcomp).

There is a large collection of resources for teaching all aspects of computing on the TES website, for both KS1 and KS2. There's also a discussion forum online. Free, but registration is required: [https://community.tes.co.uk/search/?SB=postcount\\_i%20desc&tc=1%2Fsubject%2FInformationtechnology](https://community.tes.co.uk/search/?SB=postcount_i%20desc&tc=1%2Fsubject%2FInformationtechnology).

Code Club provide detailed plans and resources for extra-curricular clubs, which might be adapted for use within the school curriculum. Free, but registration required: [www.codeclub.org.uk/](http://www.codeclub.org.uk/).

Code Club Pro provides training for teachers on the computing curriculum: [www.codeclubpro.org/](http://www.codeclubpro.org/).

In the US, code.org make available a range of high quality curriculum materials and activities linked to programming and computational thinking: <http://code.org/>.

The BBC has an extensive set of resources for pupils, linked to the new computing curriculum: [www.bbc.co.uk/schools/0/computing/](http://www.bbc.co.uk/schools/0/computing/).

BBC Two's Cracking the Code: [www.bbc.co.uk/programmes/b01r9tww/clips](http://www.bbc.co.uk/programmes/b01r9tww/clips).

The Raspberry Pi foundation has a good collection of high quality resources, which are relevant to other platforms as well as the Pi: [www.raspberrypi.org/](http://www.raspberrypi.org/).

Resources for teaching safe, respectful and responsible use of technology are widely available. Childnet International and CEOP's Thinkuknow are both good starting points for exploring these topics: [www.childnet.com/](http://www.childnet.com/) and [www.thinkuknow.co.uk/](http://www.thinkuknow.co.uk/).

SWGfL provide free access to digital literacy materials: [www.digital-literacy.org.uk/Home.aspx](http://www.digital-literacy.org.uk/Home.aspx).

Futurelab is an independent charitable organisation commissioning research into, and providing funding for, cutting-edge applications of technology in education. Their archive is also a useful resource: [www.futurelab.org.uk/](http://www.futurelab.org.uk/).

## Publications

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Bird, J., Caldwell, H. and Mayne, P., *Lessons in Teaching Computing in Primary Schools* (Exeter: Learning Matters, 2014).

Brennan, K. and Resnick, M., 'New frameworks for studying and assessing the development of computational thinking', AERA 2012 conference paper (2012).

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Hey, T., *The Computational Universe, A Journey Through A Revolution* (Cambridge: CUP, 2014).

Mozilla, *Why Mozilla Cares About Web Literacy* (2014).

Naughton, J., *From Gutenberg to Zuckerberg: What You Really Need to Know About the Internet* (Quercus, 2011).

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Wing, J M., 'Computational thinking and thinking about computing', *Philosophical transactions of the Royal Society A*, 366, 3717–3725 (2008).