

National Centre for Computing Education

What can the NCCE offer for primary schools?

Any teacher can access our CPD, online resources and events. All courses are low cost due to large subsidies from the DfE.



Am I eligible for funding?

Face-to-face CPD from the National Centre for Computing Education is free to the first teacher from a priority primary school (schools in category 5 or 6 Local Authority Districts) to participate in face-to-face CPD and they will also be eligible to receive a bursary to help cover the costs involved in participating.

<https://teachcomputing.org/bursary>

Is my school a priority primary school?

Category 5 and 6 areas for the South east region include; Basingstoke & Deane, Gosport, Hastings, Havant, Isle of Wight, Lewes, Medway, Milton Keynes, Portsmouth, Reading, Thanet, Worthing, Bracknell Forest, Crawley, Gravesham, Arun and Ashford. All schools in these areas are priority schools.

You will be able to:

- Gain inspiration to build your confidence across Key Stage 1 and Key Stage 2.
- Browse free, quality assured resources to help you plan, deliver and assess learning.
- Develop links with industry partners to bring the computing curriculum to life in your classroom.
- Find regionally delivered CPD (Regional Delivery Partners, Computing Hubs) and CAS communities of practice in your area so you can network with other computing educators.
- Participate in bursary-supported* face- to-face CPD including programming and algorithms, and free online CPD.



How do I get involved?

Access CPD and other support by creating an account on our website: www.teachcomputing.org/courses and use the 'find a course' function.

Outstanding teaching of Key Stage 1 computing

22nd March and 17th May 2019, Hunnyhill Primary School

Computing is a broad subject, made up of computer science, information technology and digital literacy. You will develop your knowledge of internet-connected computer systems, from hardware to online safety. You will take-away engaging ways to use computers and software effectively, supporting other areas of curriculum learning. Combining popular and accessible tools, you will develop the skills and ideas to support creative projects produced by your children. You'll also discover age-appropriate data collection, analysis and sharing methods and projects.

Outstanding teaching of Key Stage 2 computing

11th March and 10th June 2019, Hunnyhill Primary School

Through key stage 2, the computing curriculum aims to deepen understanding of computer science, information technology and digital literacy. Children become more skilled, and critical, users of technology, choosing tools that helps them achieve their goals while developing safe, and acceptable, online behaviours. Over two days you will broaden your understanding across the whole computing curriculum. You will strengthen your knowledge of computer systems and networks, including the internet and technologies such as search engines and email that make use of it. You will demystify computers, developing understanding of data fundamentals such as binary, and learning how the parts of a computer system handle this data to carry out useful tasks. Skilfully combining a wide range of software applications and multimedia such as video, images and sound, you will be better able to support children in creative and engaging project work across the whole primary curriculum. They will develop their ability to select the right tool for the job, then use them in a considered, effective way.

Primary programming and algorithms

24th June 2019, Hunnyhill Primary School

Programming and algorithms are fundamental to the primary computing curriculum. This one day professional development will cover what separates an algorithm from a program and why it is important to develop both. You will discover a range of different research supported teaching techniques to improve how your school delivers lessons that use algorithms and programming. You will learn about debugging, sequence, repetition, selection and variable use and the common misconceptions that hinder pupil progress. You will understand what computational thinking is and how you can develop problem solving pupils. We will provide lots of resources that you can use to develop how teachers in your school understand, plan and teach algorithms and programming.



Phil Bagge is a Computing Inspector/Advisor working for Hampshire Inspection & Advisory Service and CAS Computing Master Teacher. He currently teaches computing science in two Hampshire schools. He has co-authored two books on primary computing and his Computing science resources are the sixth most used primary computing resource in the UK. Phil is passionate about the importance of every child being exposed to quality computing science teaching and learning opportunities and believes that every primary teacher can teach outstanding computing lessons.

If you would like to commission CPD courses for groups of schools locally (you need at least 10 teachers to attend), please contact mslc@southampton.ac.uk with details of your request.

Local CPD provision for the NCE in the South East will be provided by the Mathematics and Science Learning Centre, University of Southampton until 31st October 2019. For details of courses across the South East, visit www.southampton.ac.uk/mslc/secondary/nce-courses.page and www.southampton.ac.uk/mslc/primary/primary-nce-courses.page.