The Computing Hubs

The Computing Hubs offer computing courses that cater for new, non-specialist and second subject specialism teachers covering Primary, Secondary and Sixth Form.

The computing hubs at [Dartford Grammar School](#) and [Maidstone Grammar School for Girls](#), have an exciting programme of professional development and subject support for primary and secondary schools across the South East throughout the year.

Courses cater for all levels of computing expertise – from new, non-specialist and second subject specialism teachers to those who want to take their subject knowledge to the next level with the Computer Science Accelerator (a nationally recognised certificate).

Early Career Support

The first two years as an early career teacher is heavily underpinned by training and the National Centre for Computing Education (NCCE) is on hand to help develop teaching practice. From subject knowledge to pedagogical understanding, there is a comprehensive offer to support your journey, linked to the eight Teaching Standards highlighted in the government's [Early Career Framework](#).

This handy NCCE [Early career support guide](#) gives an overview of how the offer maps against each of the eight Teaching Standards and will inform how you can gain specific support against a particular standard.

Subject knowledge certificate

The [Computer Science Accelerator](#) is a professional development programme leading to a national certificate in computer science subject knowledge. The programme is suitable for all teachers and there is a range of study pathways available at all levels. Teachers from state-funded schools and colleges enrolled on the programme are also eligible for a subsidy of £220 per course (up to £880) to support classroom cover. There are lots of courses to choose from [here](#) or contact your local hub for guidance.

Short courses for secondary teachers

There is a selection of short courses available throughout the year and here are the courses this term. During these 90-minute sessions, we will share a range of resources and advice from experienced classroom practitioners.

[Encouraging girls into GCSE computer science](#)
10 March 2023, 4pm

[Diagnostic assessment for GCSE computer science](#)
11 March 2023, 9.30-10.00am

[Behaviour for learning in a computing environment](#)

29 March 2023, 3.45pm

SEND Computing Conference 2023
The NCCE is running a full-day conference on 17 March, centred around supporting SEND pupils in their learning of computer science.

The day will be full of hands-on workshops, networking opportunities and learning – perfect for teachers from both SEND-focused and mainstream primary and secondary schools. Find out more [here](#).

CPD for primary teachers
Here is a selection of the varied programme of local CPD across the region this term:

[Preparing for Ofsted in primary computing - remote](#)
9 March 2023, 4-5.30pm

[Primary programming and algorithms - face-to-face, Dartford](#)
17 March 2023, 9.30am-3pm

[Leading primary computing - face-to-face, Rainham](#)
21 and 27 March 2023, 9.30am-3.30pm

[Thanet primary computing subject leader meeting - face-to-face, Ramsgate](#)
21 March 2023, 4-5.30pm

Teach Computing curriculum resources & physical computing kits
The Teach Computing curriculum has everything you need to teach computing at key stages 1 to 4. Sign up for a [Teach Computing](#) account and you can download resources including lesson plans, slides, activity sheets, homework and assessments. All of the content is free to use and can be adapted to meet the needs of your learners.

To complement the physical computing units within the curriculum, your local computing hub has a range of computing kits available to borrow free of charge. The kits are split into trays, by type of device. Each tray is suitable for teachers to get started with physical computing at different key stages:

Crumble trays – aimed at Key Stage 2

Micro:bit trays – aimed at Key Stages 2 and 3

Raspberry Pi 3B+ and Raspberry Pi Pico - aimed at Key Stage 4

You can read the physical computing kits [guide](#) about what's in the trays and the teaching resources and training that accompany them, or contact your local hub for more information.

Isaac Computer Science

Isaac Computer Science is a free online learning programme for A level & GCSE computer science teachers and students. Access time-saving learning materials that cover the AQA, Edexcel, Eduqas, OCR and WJEC curriculums. Discover more about the programme [here](#).

Code Club
Code Club is an extra-curricular coding club for 9-13 year olds and the organisation works with a network of volunteers, teachers and partners to run free clubs around the world. Code Club have a broad range of projects developed to help young people progress their skills while creating games, animations and web pages using Scratch, Python or HTML/CSS. Find out more about how to get involved [here](#)

Aspiration Digital - the digital careers conference for 6th formers and teachers
Aspiration Digital is a one-day digital skills conference designed to educate students on the different roles in the digital industry and explore various career paths.

The event returns to Maidstone Grammar School for Girls on 24th March 2023 and is ideal for students of media studies, business, computing, IT and marketing. Students will be invited to choose workshop sessions on web and creative development, marketing and digital content, and business and client management. They will also have an opportunity to meet businesses, universities and apprenticeship providers to discuss future study and work experience opportunities. Register to attend [here](#).

To find out more about the full support available for computing, please contact:
Dartford: teachcomputing@dartfordgrammarschool.org.uk @NCCESouthEast
Maidstone: teachcomputing@mggs.org @CompHubKent