

# TeachComputing

## Park House School Hub:



The TeachComputing Hub for Berkshire & Hampshire, part of the National Centre for Computing Education provides continuing professional development (CPD) to upskill and extend teachers of Computing in primary and secondary schools. This CPD comes with bursaries through funding from the Department for Education.

The hub is committed to supporting schools across the region not only with outstanding CPD but also with a wealth of additional support and services.

The National Centre for Computing Education is a consortium of BCS The Chartered Institute for IT, STEM Learning and Raspberry Pi.

You can follow the hub using the **@HubPHSNewbury** Twitter handle or you can email direct using [teachcomputing@parkhouseschool.org](mailto:teachcomputing@parkhouseschool.org).

## Computing Training

### Primary CPD:

All the active primary CPD currently listed for sign-up is here: [bit.ly/hubcpd](https://bit.ly/hubcpd) (as requests for CPD are received, this is updated to show new locations)

We offer the following core Primary CPD courses:

Teaching and leading Key Stage 1 Computing (2 days)	Supporting teachers with KS1 computing, this two day course explores how to effectively teach computing to KS1 students including algorithms and programming, digital literacy, creative computing and presenting information.
Teaching and leading Key Stage 2 Computing (2 days)	Over two days you will broaden your understanding across the KS2 computing curriculum. You will strengthen your knowledge of computer systems and networks, including the internet and technologies such as search engines. 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.
Primary programming and algorithms (1 day)	During this one-day professional development, you will discover engaging and effective ways to help children use computational thinking. You will be equipped to develop their knowledge of how technology works, and the skills to make computers follow instructions in simple programs.
Introduction to primary computing (1 day)	Computing in primary schools is a practical, creative and knowledge-rich subject. This course provides teachers with the knowledge and confidence to get started on the journey to outstanding computing in your school, whether you're a subject coordinator or another interested teacher.

Your school will receive a **£220 bursary per day** of training if your school is represented on any of the above courses. Please note that if attending two or more courses per academic year, there must be a different representative from your school on each of those courses.

There is a **fee of £35** for each teacher attending any of the CPD courses

### Hosting a primary course:

Should your school wish to host a course which can guarantee at least 10 teachers attending (such as using an INSET day or similar to host a 1 day course with all of your teaching staff or combining staff with other local schools) then the hub can provide an additional **£250 bursary** for hosting and an additional **£30 bursary** for catering per teacher attending. Should you have a suitable date we can work around your availability.

### Twilight sessions:

We appreciate that schools have many commitments and if you would prefer to host a 1-day CPD from the listed courses across two twilight sessions, we can of course support you with this.

### Primary certification:

Any teacher who attends two days of primary CPD session and completes one of the many online courses can attend a Computing At School community Meeting and receive a nationally recognised formal certification which will be presented by the hub.

## Secondary CPD (Accelerator Programme):

All the active secondary CPD currently listed for sign-up is here: [bit.ly/hubcpd](http://bit.ly/hubcpd) (as requests for CPD are received, this is updated to show new locations)

The accelerator programme consists of four face-to-face days of training and two online courses. The programme concludes with a final test. The following bursaries apply to state schools:

- **£440 bursary** for attending first two day face-to-face course
- **£440 bursary** for attending second two day face-to-face course
- **£620 bursary** for completing the programme including two online courses and sitting final test
- **£300 additional bursary** if completed one face-to-face by Feb 2020 – join programme by end Dec 2019)

### Total bursary of £1800 per teacher

We offer the following face-to-face courses (two of which need to be completed for the accelerator programme)

Introduction to GCSE Computer Science	This course allows participants to learn the core subject knowledge that unlocks understanding of the whole computer science GCSE curriculum, and the key terminology used. This course is designed to be an introduction of the 4 areas to the GCSE Accelerator programme.
Algorithms in GCSE Computer Science	Discover the essentials of algorithms in computing, including searching and sorting, reading and writing flowcharts, pseudo code and tracing algorithms accurately.
Data and computer systems in GCSE Computer Science	Explore the fundamentals of a computer system including the CPU architecture, memory, storage, software and how computers use data in a binary format.
Networks and cyber-security in GCSE Computer Science	Learn how computers are networked together, the hardware that is required to build and run a network, how the internet works and the cyber security threats that we face and how to prevent against them.
Python programming essentials in GCSE Computer Science	Explore the essentials of programming language Python. This course covers the basics of programming, data types, debugging, validation, reading and writing to text files.

## Secondary CPD (Core):

All the active secondary CPD currently listed for sign-up is here: [bit.ly/hubcpd](https://bit.ly/hubcpd) (as requests for CPD are received, this is updated to show new locations)

We offer the following core Secondary CPD courses:

Outstanding teaching of GCSE Computer Science (4 days)	This four day course explores the research and pedagogy behind outstanding teaching at GCSE in Computer Science, including how to teach programming successfully, using technology in the classroom, effective theory teaching, encouraging girls into GCSE computer science etc.
Creative computing for Key Stage 3 (3 days)	This three day course explores the fundamentals of a successful key stage 3 computing curriculum. Focusing on curriculum design, the course will look at how to build an inclusive curriculum, how to engage students in programming, physical computing and building a successful department.
Key Stage 4 Computing For All (1 day)	This one day course will explore how computing at KS4 can be embedded cross curricular, the different qualifications available and how to build a strong curriculum offer for all students.

There is a **fee of £35** for each teacher attending any of the CPD courses

### Hosting a secondary course:

Should your school wish to host a course which can guarantee at least 10 teachers attending (such as using an INSET day or similar to host a 1 day course with all of your teaching staff or combining staff with other local schools) then the hub can provide an additional **£250 bursary** for hosting and an additional **£30 bursary** for catering per teacher attending. Should you have a suitable date we can work around your availability.

### Secondary certification:

Any teacher who completes the accelerator programme, completes an online computing pedagogy course and attends a Computing At School Community meeting will receive a nationally recognised formal certification which will be presented by the hub.

## Additional support

### Ofsted Computing Deep Dive Guidance (Primary & Secondary)

Any school engaging in any of the CPD provided by the hub can request an hour of additional training where your school will be provided with guidance which has been developed in collaboration with the Department for Education. The hub will endeavour to work around your availability in order to provide this training at a time and date that suits you.

### Digital Leader Programme (Primary & Secondary)

The TeachComputing Berkshire and Hampshire hub is supporting primary and secondary schools with an innovative approach to supporting the computing curriculum in primary schools. The digital leader programme enables secondary school students to gain valuable leadership and digital skills as well as access to coaching and mentoring so that they can lead creative computing sessions for local primary children. This fantastic opportunity provides capacity to support the computing curriculum in primary schools whilst enabling young digital leaders to become fantastic role models and ambassadors in their community.

If your secondary school would like to highlight digital leaders to take part in this initiative or your primary school would like to gain such support please contact us at [teachcomputing@parkhouseschool.org](mailto:teachcomputing@parkhouseschool.org).

### Subject Matter Expert Support (Primary & Secondary)

The hub provides additional support for schools with one or three-year action planning for Computing in your school. For priority schools this comes with a **bursary of £1400**. Depending on the school, free support – up to 2.5 days, will be provided with the subject matter expert.

Secondary schools who are also able to place two teachers on the CS accelerator course will receive a **bursary of £5000**.

### CAS / BT Barefoot CPD (Primary only)

The hub can provide twilight training for schools wishing to explore exciting and contextual computing resources and ideas for the classroom. Two sessions are currently available:

Computational Thinking (Twilight)	This session explains Computing in the curriculum, provides ideas for planning, teaching computing without computers and assessment and explores computational thinking.
Over the Hump (Twilight)	This session provides an exciting look at how to transition from unplugged computing to using Scratch in the classroom.

For schools wishing to take part in the ‘Over the Hump’ session will receive a **bursary of £250** if 10 or more teachers are in attendance.

If you wish to book a Barefoot session please contact [teachcomputing@parkhouseschool.org](mailto:teachcomputing@parkhouseschool.org).

## Computing At School CAS Community Meetings (Primary & Secondary)

The Computing At School Communities which are stationed across the region provide a welcoming and supportive meeting three times each academic year. These meetings allow teachers to share best practice, gain valuable insight into the Computing curriculum and provide teachers with a valuable support network. The hub can help put you in contact with your local CAS Community. Attending a CAS Community Meeting is also a requirement for either the primary or secondary certification routes.

If you wish to be connected to your local CAS Community please contact [teachcomputing@parkhouseschool.org](mailto:teachcomputing@parkhouseschool.org).