



Welcome to our first newsletter of this school year.

Thank you for all of your hard work in supporting the students over the last year. If you have completed any NCCE CPD you are one of over 60,000 teachers to benefit from the programme.

SUMMER CONFERENCE - NEW DATE - TUESDAY 7 NOVEMBER 2023

We have secured a new date for our previously postponed STEM London Computing (and Science) Conference. It will still be held at UCL in London and the new date is now Tuesday 7 November 2023. More details below.

New Physical Kit to Loan

Our physical kits are always popular - over the Summer they were refreshed and are now back and ready to loan again. More details further below.

CPD

We have lots of CPD planned for the rest of this year, including face to face options (free to state schools).

If your school would like to fulfill CPD training requirements, we may even be able to come to you, whether it is group training on any of our physical kits, or, via remote, short training sessions. Do get in touch.

The Hub Team @ Newstead Wood
Paula Bull / Paul Hunt / Helen Lavelle
London, Surrey & West Sussex Computing Hub
teachcomputing@newsteadwood.co.uk



LONDON COMPUTING CONFERENCE

Tuesday 7 November 2023

A new date has now been secured for our postponed Computing Conference. It will now be held on

Tuesday 7 November 2023 09:30-15:30

University College London
Bentham House
London WC1H 0EG

Please register via this link:

[STEM London Conference - Computer Science Strand - 7 November 2023 09:30-15:30](#)

More news to follow regarding specific workshops and briefing sessions on the day. In the meantime, you can bookmark our STEM London website: [here](#) where we will put more information.

Physical Kit Loans

** New Stock **



We have had all our kits replenished over the Summer. For secondary schools, here at Newstead Wood we hold limited supplies of the following kits to loan to schools within our hub area:

Class Crumble Tray (17 per kit - requires 51 AA batteries)

Microbits (17 per kit - requires 34 AAA batteries)

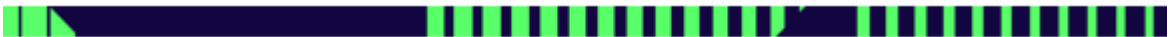
Raspberry Pi Picos (10 per kit - requires 40 AA batteries)

Raspberry Pi 3B+ (10 per kit)

** NEW ** Kitronic Chassis

** NEW ** Robotics Tray (can provide a tray pic for more info)

Our loan process can be found [here](#). [Email](#) any questions



Gain your Subject Knowledge Certificate with the Computer Science Accelerator Programme

(Certificate awarded by BCS, The Chartered Institute for IT)

Be recognised for your achievements. Computer Science Accelerator is a professional development programme for teachers, funded by the Department for Education, leading to a national certificate in computer science subject knowledge.

The programme will help you develop or refresh your subject knowledge up to GCSE, with [funding available](#) for state-funded schools and colleges to support classroom cover.

Who is eligible?

- Current and aspiring computing teachers
- Suitable for all abilities, from little or no experience in teaching computer science to experienced teachers looking to deepen their subject knowledge

All courses fully funded to state schools. Please see [here](#) to register and for more information

Teach secondary computing

(Certificate awarded by BCS,
The Chartered Institute for IT)

This professional development programme is designed to enhance how you teach secondary computing, and to give you confidence to apply those skills in the classroom. Throughout your learning journey, you'll get the opportunity to develop yourself, your professional community, and your students, by engaging in a range of activities.

The programme is suitable for teachers who have completed [the Computer Science Accelerator programme](#), and have the required subject knowledge to advance their secondary computing teaching.

See are latest scheduled courses further below or click [here](#) for alternatives.

All courses fully funded to state schools.



I Belong



I Belong is a programme specifically designed to support you to encourage girls into computer science and to help combat gender imbalance in the subject.

Computing is fast becoming a universal requirement for employment, yet the number of girls participating in the subject is disproportionate.

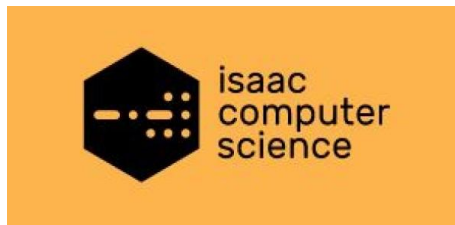
By enrolling on our programme, you will understand the factors affecting girls' participation and work with colleagues to make computer science in your school more inclusive.

Sometimes you need a helping hand to strike up inspiration, so we have come up with some ideas for you:

- Join our [Encouraging girls into GCSE computer science](#) remote course. By enrolling, you will discuss, evaluate, and plan effective interventions to increase the recruitment of girls at Key Stage 4:
 - free to state-funded schools
 - complete anywhere you want
 - only takes 2 hours to complete
- Become an **I Belong champion**. We are looking for educators to join us in championing computer science for girls:
 - gain a digital badge
 - join an online community
 - share and embed inclusive practice
- Want to learn more? Take a look at our **information pack**:
 - find out why you are vital to the effort
 - discover what you will gain from the programme
 - learn where you can start

[Register today](#)





Isaac Computer Science

Do consider registering with [Isaac Computer Science](#) - a free online learning platform for A level teachers and students. Isaac Computer Science is part of the NCCE and managed by STEM Learning from April 2023.

Isaac Computer Science allows teachers to:

- Select and set auto-marking homework questions
- Manage Students' progress in their personal markbook and allows students to:
- Study and revise at their own pace
- Track their progress via auto-marking questions

First Tech Challenge Limited £1,000 Robotics Bursaries still available - be #morethanrobots

Bought to you by *FIRST*® UK

We're excited to introduce you to the [FIRST TECH](#) CHALLENGE UK robotics programme that's launching a new season in September! With our support, you're one registration away from joining a momentous year of robotics, supported by the collaborative FIRSTcommunity as you invest in your young innovators. The programme offers...

- Young people aged 12-18 a chance to design, build, programme and compete with a robot in a global game from September to March
- A reusable robotics kit and £999 provision bursaries for non-fee paying schools/youth groups to cover the costs
- A further £4,000 in other provision including in-person comprehensive teacher CPD, competition events and online support
- Support from the FIRST community and your own industry mentor to ease the load and hit those Gatsby Benchmarks
- A comprehensive, self-directed learning experience with online educational tools and tech
- Electric events where STEM meets sport
- Young people a chance to develop the skills and resilience to envision a future in STEM

More information can be found here - [FIRST TECH CHALLENGE - Limited £1,000 Robotics Bursaries still available - be #morethanrobots | Careers, Clubs and Cross-Curricular \(stem.org.uk\)](#) and to register click here [Register a team : FIRST Tech Challenge UK \(firstuk.org\)](#)

CPD Training Courses September 2023 +

Check out our latest course information below and bookmark our brochure:

[London, Surrey & West Sussex Computing Hub - Secondary Overview 2023](#)



Solving computational problems in KS3 computing

[@MrAHarrisonCS](#) is delivering a remote course in Solving computational problems in KS3 computing

Aimed at teachers and curriculum leaders in secondary computing with, at least, foundational knowledge of computing

Date: 27 September 2023 09:00-15:00

Venue: Remote

[Book Now](#)



An introduction to computer systems, networking and security in GCSE computer science

Learn in the classroom about the different components of computer hardware, including devices not instantly recognisable as computers.

Date: 19 October 2023, 09:15-15:30

Venue: Newstead Wood School
Avebury Road
Orpington BR6 9SA

[Book Now](#)



Foundation knowledge of computer science for KS3 and GCSE



Supporting GCSE computer science students at grades 1-3

For computer science teachers who are new or existing to the subject. This CPD covers the foundation subject knowledge required to teach the computing programme of study.

This course is for prospective teachers of Key Stage 3 / 4 computing who may be new to the subject, or who may have taught computing in earlier years.

Date: 2 November 2023, 09:15-15:45

Venue: John Keats
Academy, London SE16 3FN

Book Now



An introduction to algorithms, programming and data in computer science

This course is for prospective teachers of computer science who may be new to the subject, or who may teach computing in earlier years

Create some simple block-based computer programs and discover how to implement them in the text based language Python.

Dates: 16 November 2023

Venue: Remote (MS Teams)

Book Now

Explore how to improve attainment in Computer Science for students working towards grades 1 - 3.

No prior experience or knowledge of computing is expected before attending this course. It is advised that you become familiar with the [National Curriculum in Computing](#) before participating.

Date options:

[21 September 2023 09:00-15:30](#)
[28 September 2023 09:00-15:30](#)
[2 October 2023 09:00-15:30](#)
[23 October 2023 09:00-15:30](#) (Half Term Option)

Venue: Remote



Higher attainment in computer science - meeting the challenges of the exams

Explore how to improve attainment in Computer Science, look at how students should tackle exam questions and use key resources such as moderator reports, how retrieval and interleaving can be used and mapping progression from KS3 to KS4.

Dates: 5 December 2023 09:00-15:45

Venue: Remote (MS Teams)

Book Now



Python programming constructs: sequencing, selection & iteration for AQA specification

Take your first steps to becoming a competent teacher of Python programming; this CPD will develop your foundational knowledge around the Python language. This course references the AQA 8525 9-1 GCSE Computer Science specification and the pseudocode representation that will be used in exams.

Dates: 7 December 2023 09:00-16:00

Venue: Remote (MS Teams)

[Book Now](#)



Python programming: advanced subject knowledge, implementation and testing

As you progress beyond the basics of Python programming, this course will help you develop an understanding how programs are developed using the software life cycle, specifically the implementation and testing of a working solution.

Dates: 8 December 2023 09:00-15:45

Venue: Remote (MS Teams)

[Book Now](#)



London, Surrey & West Sussex Computing Hub

Our hub is based at:
Newstead Wood School
Avebury Road
Orpington Kent BR6 9SA

T: 01689 853626
E: teachcomputing@newsteadwood.co.uk
W: [Newstead Wood School CS Hub](#)
W: [Teach Computing – STEM London](#)

We will work with you to identify your computing needs and provide a targeted programme of support to help embed this key subject in your school. For your local support, follow us on social media through [X \(formerly Twitter\)](#) and [Facebook](#) and [Instagram](#)