



Welcome to our Secondary newsletter. It has been a busy term for all of us and we have started meeting face-to-face again, which is lovely. There is still time to sign up for an afternoon of physical computing playing with micro:bits and Raspberry Pi picos – sign up here <https://bit.ly/KS3microbit> and <https://bit.ly/KS4pico>

We now have kits of micro:bits and Raspberry Pi picos to loan out free to our schools so if you are interested in this please email us at teachcomputing@potteries.ac.uk.

If you have nearly finished your CSA journey but just want a little bit of support in taking your test, then come along to our CSA Support Surgery on Monday 25th. Book your place now: [CSA Support Surgery | STEM](#)

We hope you have a wonderful half term and look forward to seeing you and your colleagues on one of our courses soon.

Neil and the team.

Make sure to follow us on Twitter [@ComputingHubSOT](#) for all things computing and course updates!

NEW WEBSITE



Check out our **NEW WEBSITE**, launching **THIS FRIDAY** (22nd October), for the chance to enter our **GIVEAWAY!**

Keep an eye on your emails or our Twitter page [@ComputingHubSOT](https://twitter.com/ComputingHubSOT) for the launch!

Our website will include:

- Course information
- Useful resources
- Kit loan
- Curriculum links
- Collaboration support
- And more!

UPCOMING CPD COURSES



UPCOMING CPD!

Our CPD courses are available to book online!

Discover our range of professional development courses, designed to help you teach computing. Courses cater for all levels of knowledge, with bursaries available for school and college to help you participate!

If you have any questions please do not hesitate to contact us on

TeachComputing@potteries.ac.uk

[View available courses](#)

UPCOMING REMOTE CPD COURSES

Collaboration in KS3 programming

Date: 1st, 4th and 8th November

Location: Remote via Adobe Connect

Programming is a highly collaborative activity, through which groups of individuals can achieve greater things than they would alone. In industry as well as through the lived experience of young people working creatively with code, many effective approaches to collaborative working have emerged that deserve a place in the computing classroom.

[BOOK NOW](#)

Computer processors and instruction sets

Date: 2nd, 9th and 16th November

Location: Remote via Adobe Connect

Explore the core of a modern computer - the processor. Learn how the instructions that humans write in computer programs are translated into machine code that the computer can process. Compare the differences between high-level and low-level programming languages, and how these can be used in the classroom.

[BOOK NOW](#)

Maths in computer science

Date: 11th, 12th, 18th and 19th November

Location: Remote via Adobe Connect

During this course you'll explore how mathematics and computing are closely linked. You'll upskill in foundational topics including number systems, logic, and arithmetic and relational operations. You'll also apply mathematical techniques to teaching vector graphics and compression.

[BOOK NOW](#)

Teaching GCSE computer science: improving student engagement

Date: 10th, 15th, 17th and 23rd November

Location: Remote via Adobe Connect

This evidence-based CPD will help you to develop your classroom practice, focused on the broadening and deepening of classroom pedagogy, helping you to get the best from your students.

[BOOK NOW](#)

Python programming: analysis, design and evaluation

Date: 22nd, 24th and 29th November

Location: Remote via Adobe Connect

During this course you'll develop your understanding of how to analyse a set of requirements, including spotting patterns of which programming techniques may be required, how to interpret these requirements through the use of abstraction and decomposition and learn how to develop decomposition diagrams to aid the planning of a programming project.

[BOOK NOW](#)

UPCOMING FACE TO FACE CPD COURSES

Physical computing kit - KS3 micro:bit

Date: 22nd October

Location: Stoke-on-Trent Sixth Form
College, ST4 2RU

During this CPD, you'll explore how the micro:bit, can be programmed to control creative digital projects. With a range of programming environments freely available it supports the transition from blocks to text, meeting the programming requirements of the National Curriculum and preparing students ready for GCSE.

[BOOK NOW](#)

Physical computing kit - KS4 Raspberry Pi Pico

Date: 22nd October

Location: Stoke-on-Trent Sixth Form
College, ST4 2RU

During this CPD you'll explore how the Pico, which is equipped with general-purpose input and output (GPIO) pins, can be used to control and receive input from a huge variety of electronic components and digital devices. It is suitable for use with students at key stage 3 and 4 who have experience of writing text based code.

[BOOK NOW](#)

Teaching GCSE computer science pedagogy for programming

Date: 12th November

Time: 09:30-16:00

Location: St Joseph's College, ST4 5NT

During this one day course you'll dive deep into teaching and learning of programming. You'll learn effective ways of delivering programming in the classroom, using structures such as PRIMM.

[BOOK NOW](#)

Computer processors and instruction sets

Date: 21st January

Time: 09:30-16:00

Location: St Joseph's College, ST4 5NT

Explore the core of a modern computer - the processor. Learn how the instructions that humans write in computer programs are translated into machine code that the computer can process. Compare the differences between high-level and low-level programming languages, and how these can be used in the classroom.

[BOOK NOW](#)

OTHER RESOURCES

NEW Opportunity

The National Centre is hosting three exciting days of training in York over half term for experienced teachers of computer Science. If you want to improve student progress and outcomes, then this course is for you.

[BOOK NOW](#)

KS3 curriculum overview

Come along and find out about the Teach Computing Curriculum for KS3. Detailed units of work are available, and this session will give you a clear overview of everything available. Tuesday 19th October 16:00-17:00.

[BOOK NOW](#)

OpenUK Glove Kit Giveaway

Apply via the button below for the Giveaway to receive **FREE** OpenUK Digital Glove(s) and participate in the Open Kids Camp!

[CLICK HERE](#)

Gender Balance in Computing

Primary and secondary schools have one final opportunity to take part in the Gender Balance in Computing research programme run by the National Centre for Computing Education.

Deadline to sign up: November 10th.

[CLICK HERE](#)