



Welcome back to a new year and new term. We hope you all had a fantastic summer and managed to do what you wanted to, whatever it was. If any of you used our ideas for days out, please do let us know how your day out went by tweeting us [@ComputingHubSOT](https://twitter.com/ComputingHubSOT), we love to hear about your adventures.

We have some exciting news for this term. We have our physical computing kits to loan out to schools! Come along to some face-to-face training to find out what we have and how to use it for [Primary](#), [KS3](#) and [KS4](#). Once you have had your training you can then book the kits for a half term slot and use them in your classes. We will be scheduling more face-to-face sessions around the region as the term goes on so make sure you stay tuned to our updates.

We are looking forward to adding some new face-to-face venues to our programme schedule, if you would like some training delivered in your area please do get in touch.

Have a great start to the year,

North Mids Computing Hub Team.

Make sure to follow us on Twitter [@ComputingHubSOT](https://twitter.com/ComputingHubSOT) for all things computing and course updates!

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 CPD COURSES

Solving computational problems in KS3 computing

Date: 6th, 8th and 13th October

Location: Remote via Adobe Connect

This CPD takes a beginning-to-end view from finding suitable problems that are engaging; through supporting students to understand and tackle the problem; to coding and evaluating a solution. Participants will be equipped to plan authentic projects and activities that stretch all learners to the fullest of their ability, scaffolding learning with approaches that are firmly based in evidence.

[BOOK NOW](#)

Representing algorithms using flowcharts and pseudocode

Date: 7th, 12th and 14th October

Location: Remote via Adobe Connect

Improve your knowledge of algorithms to the level appropriate for up to GCSE teaching. Become confident in using the key building blocks of sequence, selection and iteration, and learn to apply algorithmic thinking. Explore how to construct or trace pseudocode and flowchart representations of algorithms.

[BOOK NOW](#)

Python programming constructs: sequencing, selection & iteration

Date: 18th, 25th and 29th October
Location: Remote via Adobe Connect

Take your first steps to becoming a competent teacher of Python programming; this CPD will develop your foundational knowledge around the Python language. Learn how to write code to input, process and output data, and how to manipulate data stored in variables. Using the building blocks of sequence, selection and iteration you'll begin to understand how programs are constructed to perform a multitude of simple and more complex tasks.

[BOOK NOW](#)

Physical computing kit - KS3 micro:bit

Date: 22nd October
Location: Stoke-on-Trent Sixth Form College

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](#)

Representing algorithms using flowcharts and pseudocode

Date: 7th, 12th and 14th October
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[BOOK NOW](#)

Physical computing kit - KS4 Raspberry Pi Pico

Date: 22nd October
Location: Stoke-on-Trent Sixth Form College

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](#)

SHORT COURSES

Encouraging girls into GCSE computer science

Date: 19th October

Location: Remote via Adobe Connect

There needs to be strategies inside and outside of the classroom to support. An overview of the current challenges in computing with a specific focus on gender balance. The course covers the current research and explores existing barriers on gender balance. Exploring curriculum design and specific in class strategies schools can implement and embed in raising the engagement and uptake of Computer Science for all

[BOOK NOW](#)

OTHER RESOURCES

Gender Balance in Computing - last chance to take part!

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.

Secondary schools: in the Relevance project, schools will be randomly allocated to a control group or an intervention group. The intervention group will be asked to adapt their curriculum and teach using some new resources that use computing to solve real-world problems and create an app. This project will run for 12 weeks with Year 8 pupils between January 2022 - April 2022.

Deadline to sign up: November 10th.

Find out more about these projects and register your interest click the button below.

[CLICK HERE](#)