

All courses on offer from the hub can be found here: <https://bit.ly/MW_autumn_courses>

**Primary Computing**

**Primary computing courses**

Primary Schools have access to a one-off bursary for the first course a teach engages with in the academic year. All courses have a fee and bursary attached, please see below for more details:

|  |  |  |
| --- | --- | --- |
|  | **Fee** | **Bursary** |
| **1-day course** | £65 | £220 |
| **2-day course** | £130 | £440 |

By attending CPD, completing an online course plus enrichment activities, the participant will be able to gain the **Primary Computing Certificate**. This is a recognised certification awarded by BCS, The Chartered Institute for IT and accredited by Royal Academy of Engineering.

**Course list (Duration in days)**

|  |  |
| --- | --- |
| **Face to face** | **Remote** |
| **Course** | **Duration** | **Course** | **Duration** |
| Teaching KS1 computing  | 2 | Primary programming and algorithms | 1 |
| Teaching KS2 computing | 2 | Teaching KS1 module 1 | 1 |
| Primary programming and algorithms | 1 | Teaching KS1 module 2 | 1 |
| Introduction to primary computing | 1 | Teaching KS2 module 1 | 1 |
| Outstanding primary computing for all | 1 | Teaching KS2 module 2 | 1 |
| Assessment of primary computing | 1 | Introduction to primary computing | 1 |
| Leading primary computing | 2 | Leading primary computing | 2 |
| Computing on a budget | 1 |  |  |

**Short courses – all free**

|  |  |
| --- | --- |
| **Course** | **Duration** |
| Enriching primary computing with STEM Ambassadors (remote) | 90 mins |
| Assessing computational thinking in primary schools (remote) | 90 mins |
| Physical computing kit - KS2 Crumble (face to face) | 90 mins |
| Physical computing kit – KS2 Micro:bits (face to face) | 90 mins |

**Bespoke courses**

We also offer bespoke training upon request, please contact us directly on teachcomputing@bca.warrington.ac.uk

**Secondary Computing**

**Computer Science Accelerator programme**

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**. This is a recognised certification awarded by BCS, The Chartered Institute for IT and accredited by Royal Academy of Engineering

The programme will help you develop or refresh your subject knowledge up to GCSE, with bursary funding available for state-funded schools and colleges to support your learning.

There are **no fees** to pay for teachers in England who work in state-funded schools and colleges and trainee teachers, supply teachers or teachers returning to the state sector.

If you are a teacher in state-funded education, you will also be eligible to apply for [**bursary funding**](https://teachcomputing.org/bursary) to support your learning, paid to your school or college. Deferred bursaries are also available for teachers who do not currently work in state education who meet our eligibility criteria.

\* Primary school teachers are also eligible to enrol and can gain the attendance bursary.

**Course list (Duration in days)**

|  |  |  |
| --- | --- | --- |
| **Course** | **Duration** | **Delivery** |
| Introduction to computer systems, networking, and security | 1 | Remote and Face to face |
| Introduction to algorithms, programming, and data | 1 | Remote and Face to face |
| Representing algorithms using flowcharts and pseudocode  | 1 | Remote and Face to face |
| Search and sort algorithms | 1 | Remote and Face to face |
| Computer systems – input, output, and storage | 1 | Remote and Face to face |
| Computer processors | 1 | Remote and Face to face |
| Fundamentals of computer networks | 1 | Remote and Face to face |
| The internet and cybersecurity | 1 | Remote and Face to face |
| Python programming constructs | 2 | Remote and Face to face |
| Python programming – working with data | 1 | Remote and Face to face |
| Python programming – advanced subject knowledge | 1 | Remote and Face to face |
| Python programming – analysis, design, and evaluation | 1 | Remote and Face to face |
| Higher attainment in GCSE Computer Science | 1 | Remote and Face to face |
| Introduction to algorithms, programming, and data for DT teachers | 2 | Remote and Face to face |
| Maths in computer science | 1 | Remote and Face to face |

**Secondary Computing courses**

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. The learning journey is personalised as the participant can select the CPD which would be most beneficial.

The programme is suitable for teachers who have completed [the Computer Science Accelerator programme](https://teachcomputing.org/cs-accelerator), and have the required subject knowledge to advance their secondary computing teaching.

Courses in this programme has a £65 fee or for participants who have completed the Subject Knowledge certificate the courses can be accessed for free.

By attending CPD, completing an online course plus enrichment activities, the participant will be able to gain the **Secondary Computing Teaching Certificate**. This is a recognised certification awarded by BCS, The Chartered Institute for IT and accredited by Royal Academy of Engineering.

**Course list (Duration in days)**

|  |  |  |
| --- | --- | --- |
| **Course** | **Duration** | **Delivery** |
| Key Stage 4 Computing for all | 1 | Remote and Face to face |
| New subject leaders of secondary computing | 2 | Remote and Face to face |
| KS3 computing (module 1): Creative curriculum design principles | 1 | Remote and Face to face |
| KS3 computing (module 2): Creative curriculum content, sequencing, and pedagogy | 1 | Remote and Face to face |
| KS3 computing (module 3): Creative curriculum enrichment and inclusion | 1 | Remote and Face to face |
| Assessment and progression in KS3 computing | 1 | Remote and Face to face |
| Teaching GCSE Computer Science: improving student engagement | 1 | Remote and Face to face |
| Teaching GCSE Computer Science: developing knowledge and understanding | 1 | Face to face |
| Teaching GCSE Computer Science: pedagogy for programming | 1 | Face to face |
| Solving computational problems in KS3 computing | 1 | Remote |
| Collaboration in KS3 programming | 1 | Remote |
| Adapted teaching and effective learning interventions in secondary computing | 1 | Remote |

**Short courses – all free**

|  |  |
| --- | --- |
| **Course** | **Duration** |
| Enriching secondary computing with STEM Ambassadors (remote) | 90 mins |
| Assessment of secondary computing (remote) | 90 mins |
| Encouraging girls into Computer Science (remote) | 90 mins |
| Physical computing kit – KS3 Micro:bits (face to face) | 90 mins |
| Physical computing kit – KS4 Raspberry Pi Pico (face to face) | 90 mins |

**Additional Information**

**MATS/Organisations**

If your school is part of a MAT or organisation who would like an invite only instance of a particular course, please get in touch via teachcomputing@bca.warrington.ac.uk

Benefits of invite only:

* Day and time to suit your teachers
* Resources can be tailored to the needs of your MAT/organisation
* Time for teachers across the MAT/organisation to collaborate on the curriculum

If you are interested in setting up a computing network within your MAT/Organisation, including primary computing CPD, curriculum support and bespoke workshops please get in touch via teachcomputing@bca.warrington.ac.uk

**Bookings**

To book onto courses the participant must have a Teach Computing account, this can be created by visiting: <https://teachcomputing.org> If a participant already has a STEM Learning UK account, they will be able to link this to the Teach Computing account.

Please noted the participant needs to ensure the account includes the school they work for; this is prompted on sign up.

**Subject Matter Experts**

The hub has a team of experienced primary and secondary Subject Matter Experts to offers teachers and leaders the opportunity to gain bespoke support to enhance their curriculum offer, with bursaries available to help them achieve their goals.

All schools in Merseyside and Warrington are able to access the school engagement programme offers support to schools or colleges not yet delivering GCSE computer science or who are finding it a challenge to maintain GCSE, and for priority primary and secondary schools (located in [Local Authority Districts 5 and 6](https://drive.google.com/file/d/1RX7bJpA1P3992Q4Nfe_7xHjVy80KGvsW/view)). Please complete the following request [form](https://docs.google.com/forms/d/e/1FAIpQLSfAHlpTc4lZOKxsfnsMQHOmCMkKsawNsEoNiYHmrf1O0ZoZ3g/viewform) for your local Subject Matter Expert to get in touch.

|  |  |  |  |  |  |
| --- | --- | --- | --- | --- | --- |
|  | Primary school | Secondary school | Started teaching GCSE CS in last 2 years | At risk of dropping GCSE CS | Non-GCSE secondary school |
| **SME time (days)** | 0.5 | 0.5 | 1 | 1 | 2.5 |
| **Bursary** | - | - | - | 1400 | £1400\*  |
| \* plus additional £4000 if the school begins delivery of GCSE CS the next academic year. |

**Physical Computing**

Current research suggests that physical computing will play an important role in modern pedagogical approaches, both as a tool to engage learners and as a strategy to develop learner understanding in more creative ways. This approach also has the benefit of supporting and engaging a diverse range of learners in tangible and challenging tasks.

Starting this September, we have a several Physical Computing kits available for schools in the Merseyside and Warrington regions to loan for up to 6 weeks (or one-half term). Once the loan agreement has been completed, the school loaning the kit must be picked up or a courier arranged and returned at the end of the loan period. Training is available upon request.

To express your interest in loaning the equipment please complete the following form: <https://bit.ly/Kit_Loan>

Kit information:

|  |  |  |  |
| --- | --- | --- | --- |
|  | **KS2** | **KS3** | **KS4** |
| **Crumble** |  |  |  |
| **Micro:bit v2** |  |  |  |
| **Raspberry Pi Computer** |  |  |  |
| **Raspberry Pi Pico** |  |  |  |
| **VEX Robotics** |  |  |  |

The [Teach Computing curriculum resources](https://teachcomputing.org/curriculum) includes schemes of work utilising the kits above.

**Other opportunities**

Further information for secondary school leaders about how teach computing can support your school <https://teachcomputing.org/secondary-senior-leaders>