



NCCE Computing Hub

Cambridgeshire Headteacher Forum

Philip Atkin, Primary-Phase Lead

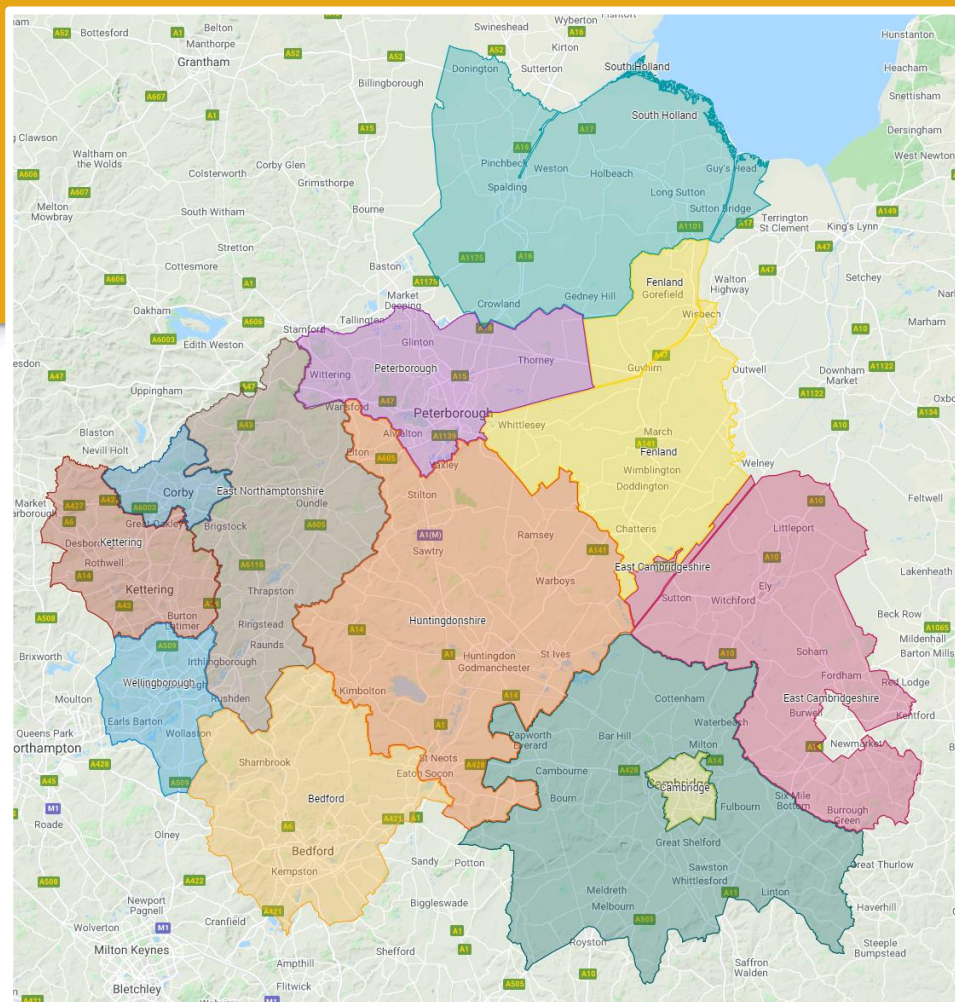
Our hub

One of 34 Computing Curriculum Hubs across England.

Led by Chesterton Community College.

Reaching 472 Primary Schools serving over 125,000 pupils.

DfE Funded until March 2023...



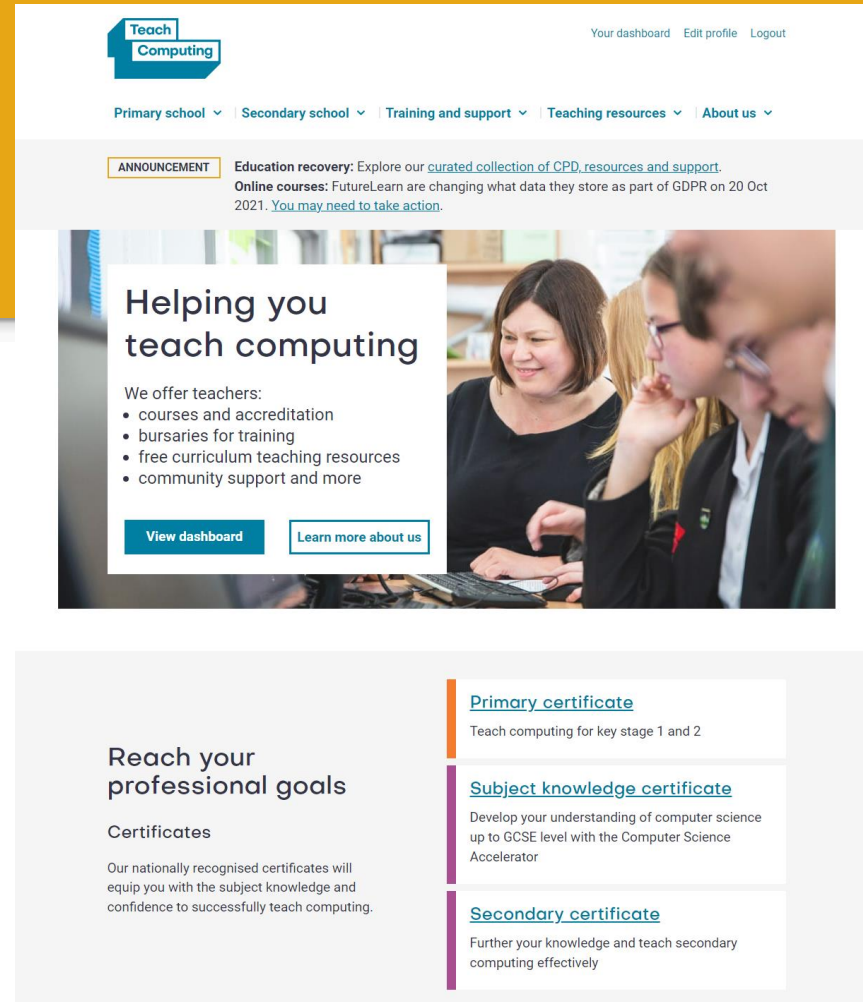
Teach Computing

teachcomputing.org

Information about the different training offers and bursaries available.

Access to the Teach Computing Curriculum and all the associated resources.

Teachers need to register.



The screenshot shows the Teach Computing website. At the top is the 'Teach Computing' logo. To the right are links for 'Your dashboard', 'Edit profile', and 'Logout'. Below the logo is a navigation bar with links for 'Primary school', 'Secondary school', 'Training and support', 'Teaching resources', and 'About us'. An announcement box states: 'ANNOUNCEMENT Education recovery: Explore our [curated collection of CPD, resources and support](#). Online courses: FutureLearn are changing what data they store as part of GDPR on 20 Oct 2021. [You may need to take action](#).' The main banner features the text 'Helping you teach computing' over a background image of two teachers. Below this, it says 'We offer teachers:' followed by a list: 'courses and accreditation', 'bursaries for training', 'free curriculum teaching resources', and 'community support and more'. There are two buttons: 'View dashboard' and 'Learn more about us'. The bottom section is titled 'Reach your professional goals' and lists three certificates: 'Primary certificate' (Teach computing for key stage 1 and 2), 'Subject knowledge certificate' (Develop your understanding of computer science up to GCSE level with the Computer Science Accelerator), and 'Secondary certificate' (Further your knowledge and teach secondary computing effectively).

Teach Computing

Your dashboard Edit profile Logout

Primary school Secondary school Training and support Teaching resources About us

ANNOUNCEMENT Education recovery: Explore our [curated collection of CPD, resources and support](#).
Online courses: FutureLearn are changing what data they store as part of GDPR on 20 Oct 2021. [You may need to take action](#).

Helping you teach computing

We offer teachers:

- courses and accreditation
- bursaries for training
- free curriculum teaching resources
- community support and more

[View dashboard](#) [Learn more about us](#)

Reach your professional goals

Certificates

Our nationally recognised certificates will equip you with the subject knowledge and confidence to successfully teach computing.

[Primary certificate](#)
Teach computing for key stage 1 and 2

[Subject knowledge certificate](#)
Develop your understanding of computer science up to GCSE level with the Computer Science Accelerator

[Secondary certificate](#)
Further your knowledge and teach secondary computing effectively

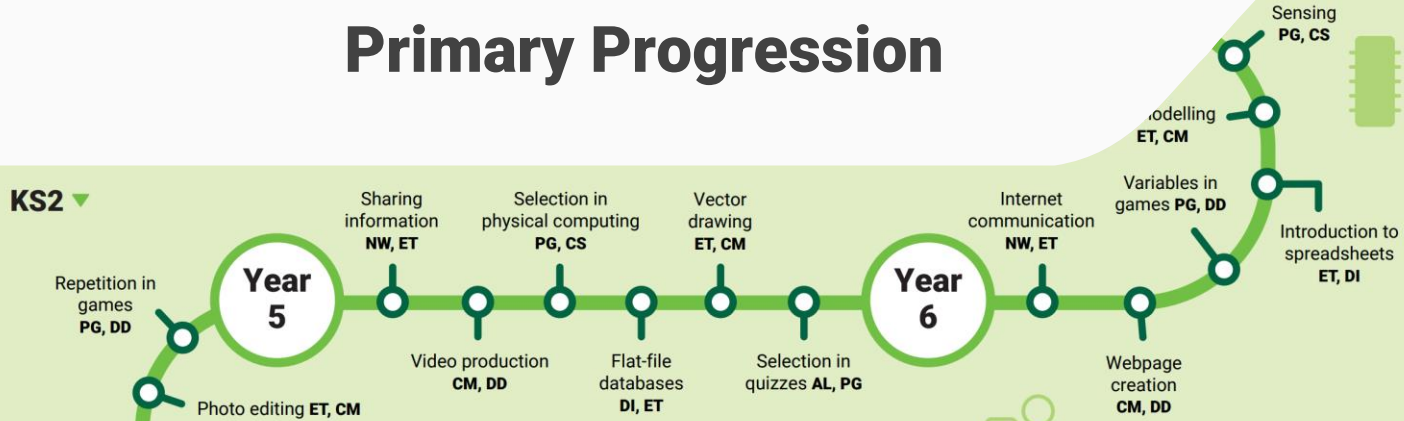
Teach Computing Curriculum

A fully-resourced curriculum for Key Stages 1 to 4:

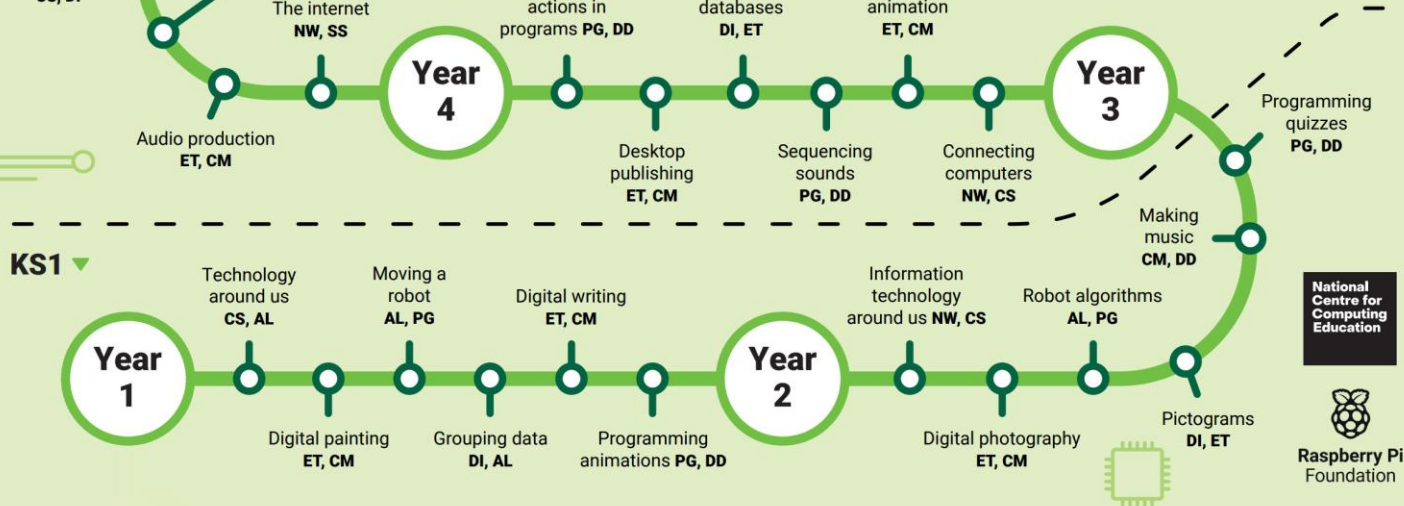
- Lesson plans, slides, activity sheets, homework & assessment;
- Clear progression throughout;
- Guided by the latest pedagogical research;
- All free for you to use and adapt.

Primary Progression

KS2 ▼



KS1 ▼



National
Centre for
Computing
Education



Raspberry Pi
Foundation

Professional Development



SCAN ME

High-quality training and professional development for teachers and subject leaders:

- Short courses (up to two hours) are at no cost.
- Day courses are £65, but a supply-cover subsidy of £220 (£440 for 2-day courses) is available for 1 teacher in your school.

Don't have to be using Teach Computing Scheme of Work to access any of our services.

Our Courses

Short Courses (Remote)

- Getting Started in Year ...
- Preparing for Ofsted in Primary Computing
- Assessing Computational Thinking
- Introduction to Crumble / micro:bit
- Online Safety through Computing



Our Courses

Day Courses (Face-to-Face or Remote)

- Teaching KS1 Computing (2 days)
- Teaching KS2 Computing (2 days)
- **Leading Primary Computing** (2 days)
- Primary Programming & Algorithms
- Assessment of Primary Computing
- Computing on a Budget
- Introduction to Primary Computing
- Outstanding Computing for All

Comments following CPD

“[Our facilitator] answered all of the questions we had really well and improved my confidence. I now have so much to take back to school!”

“[Our facilitator] was really great at answering questions and happy to go a little off-topic or move on, as the conversation developed or issues came up.”

Comments from course participants.

“Thank you for Thursday! The session went really well and I had such positive comments the next day. Everyone really enjoyed it and found you so helpful!”

Comment from subject lead
following Crumble training

Primary Certificate

Two pathways through professional development activity.

Developing in the classroom

- Complete at least one day-course
- Complete at least one online course
- Complete an activity to develop your practice
- Develop computing in the community

Specialising or leading

- Complete at least one day-course
- Complete at least one online course
- Complete an activity to develop your practice
- Develop computing in the community

Subject Matter Experts - Consultancy

Priority 5/6 areas receive free SME consultancy (up to a half-day of direct support)

- Review your curriculum
- Support a new subject lead
- Plan professional development for staff

Opportunities for MATs, federations or clusters to 'pool' support.

Non-priority schools can access a needs assessment.

Needs Analysis Example

2-form entry primary school – non-priority – area of low deprivation – school had recently adopted Teach Computing in preference to Purple Mash.

Discussion, led by the school's priorities, focussed on:

- Auditing staff skills – the hub provided some example templates
- Identified free and funded training for staff to access as an outcome from staff surveys
- Signposted other services, eg Computing Quality Framework, Forums

Needs Analysis Example

- Signposted resources to support the integration of Microsoft Teams
- Ways to enrich the curriculum with visits, visitors and clubs

Comment from Subject Lead:

“Thank you so much for your time during our meeting but also providing such a helpful and detailed document. Really appreciated your expertise and advice. It will be great to start actioning some of this asap.”

Consultancy Example

2-form entry primary – priority area – school using Purple Mash, but a review of this had suggested a change. School wanted to adopt Teach Computing.

- Initial action planning meeting to identify priorities and also signpost resources for areas of self-help. (March)
- Time spent with subject lead to plan curriculum change.
- Free and funded CPD identified to support teachers where subject-knowledge or confidence was weakest

Consultancy Example

- Guidance given to support collating evidence for computing.
- Whole-school Scratch training to upskill teachers.

Impact

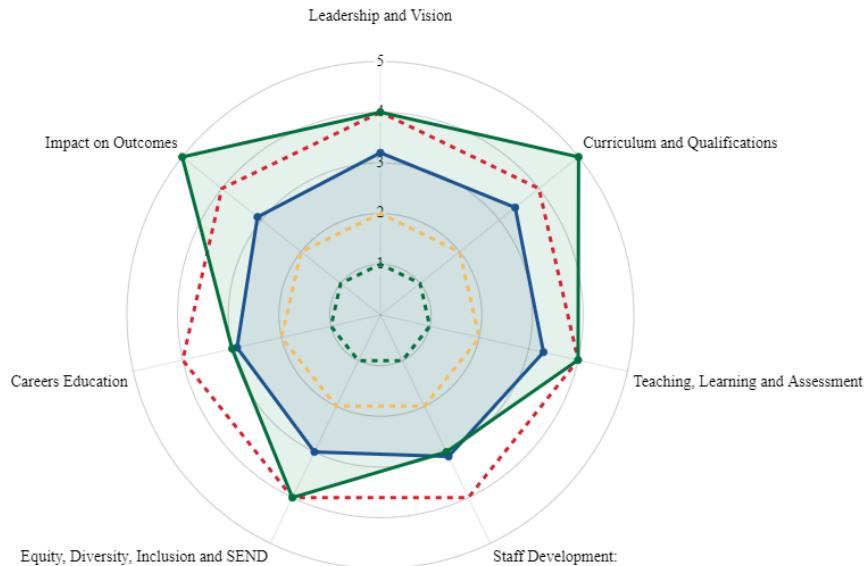
- Teacher confidence surveys show improvements
- New curriculum was implemented fully in September
- SLT identified provision as “greatly improved”.

Computing Quality Framework



Computing
Quality Framework

Current Level National Level Certificate of Commitment Certificate of Progress NCE Computing Mark



Accreditation

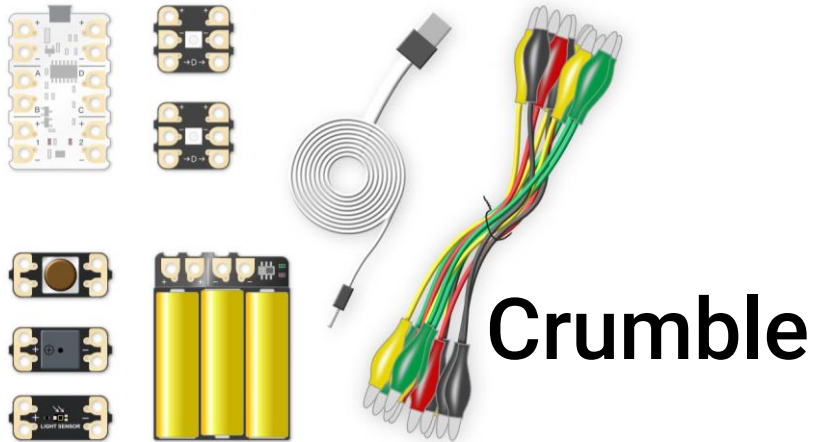
When you are able to show good practice, you can apply for the nationally recognised NCE Computing Mark, awarded by BCS, the Chartered Institute for IT

<https://computingqualityframework.org/>

Physical Computing Kit



SCAN ME



Other activities

- Subject Leader Forums
- Specific-Interest Groups
- Action Research Groups
- Guidance and advice by email
- Bespoke CPD



Any questions?

Philip Atkin

Primary Phase Lead

Computing Curriculum Hub – Cambridge & Northamptonshire

@NCCE Cambs

<https://tela.org.uk/resources/computing-hub/>

patkin@ccc.tela.org.uk



CHESTERTON
COMMUNITY COLLEGE

