NCCE Computing Hub

Cambridgeshire Headteacher Forum

Philip Atkin, Primary-Phase Lead

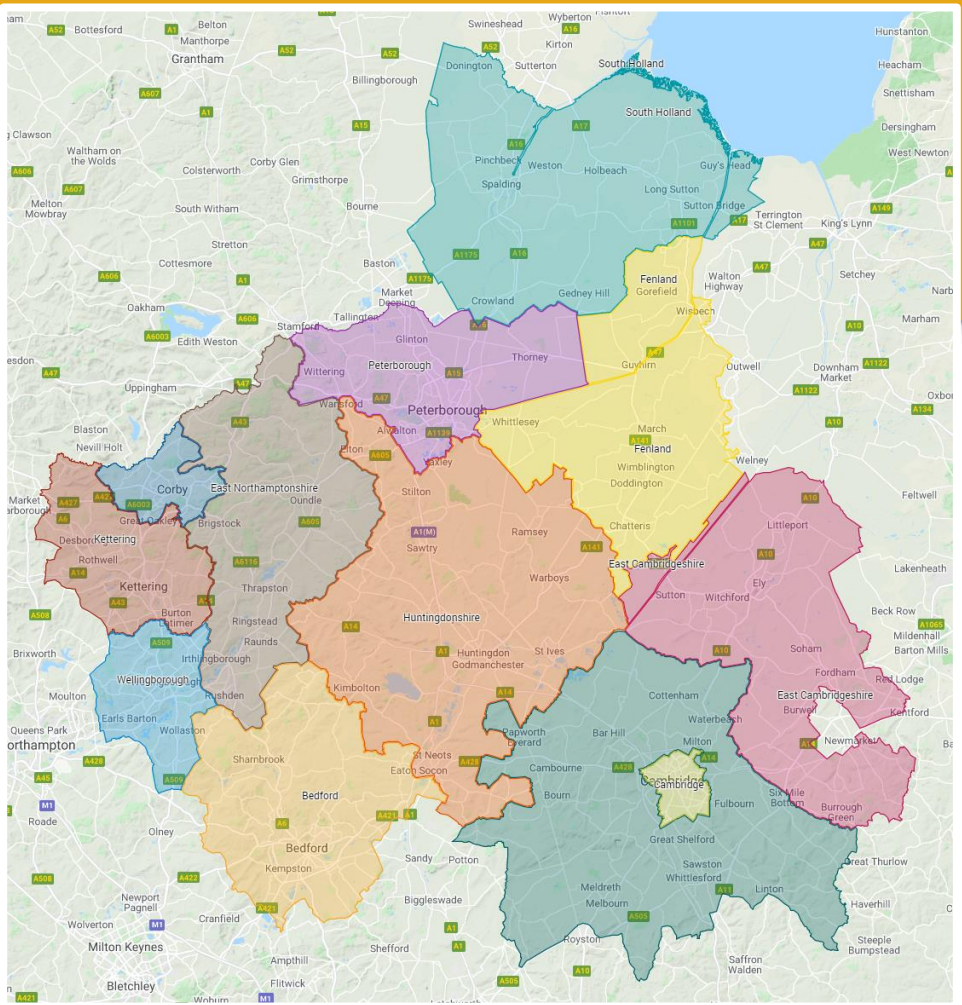
Our hub

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...



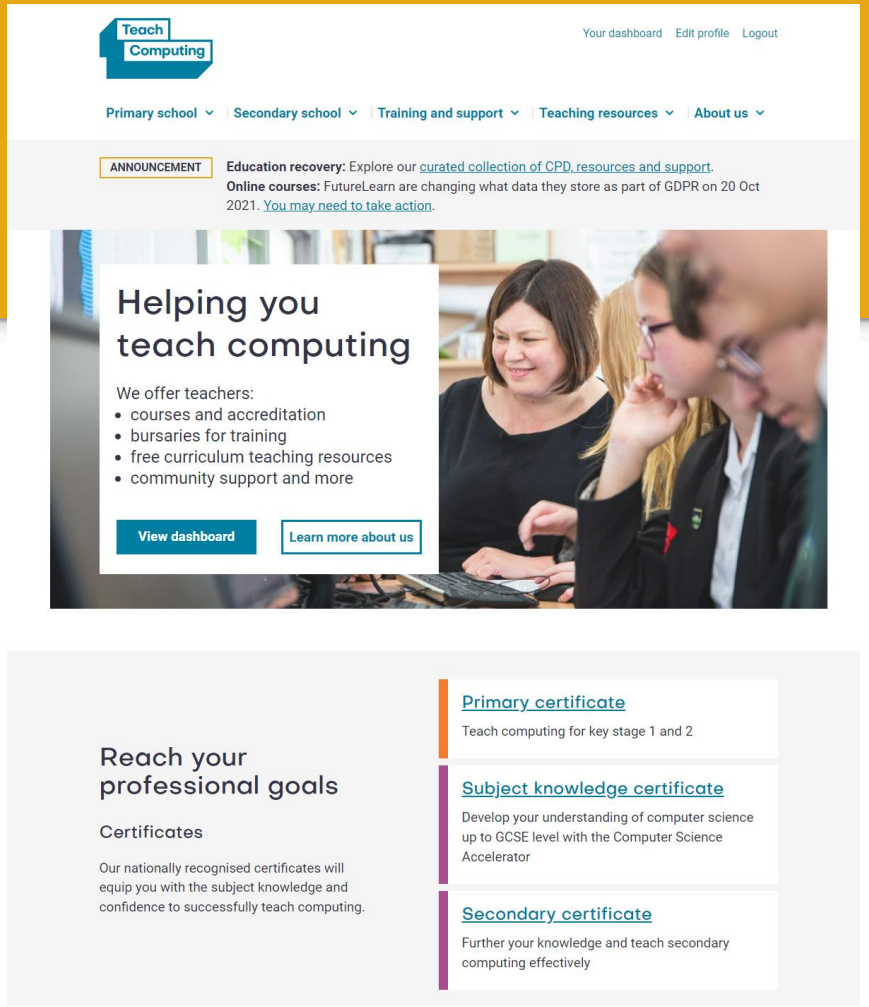
Teach Computing

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.

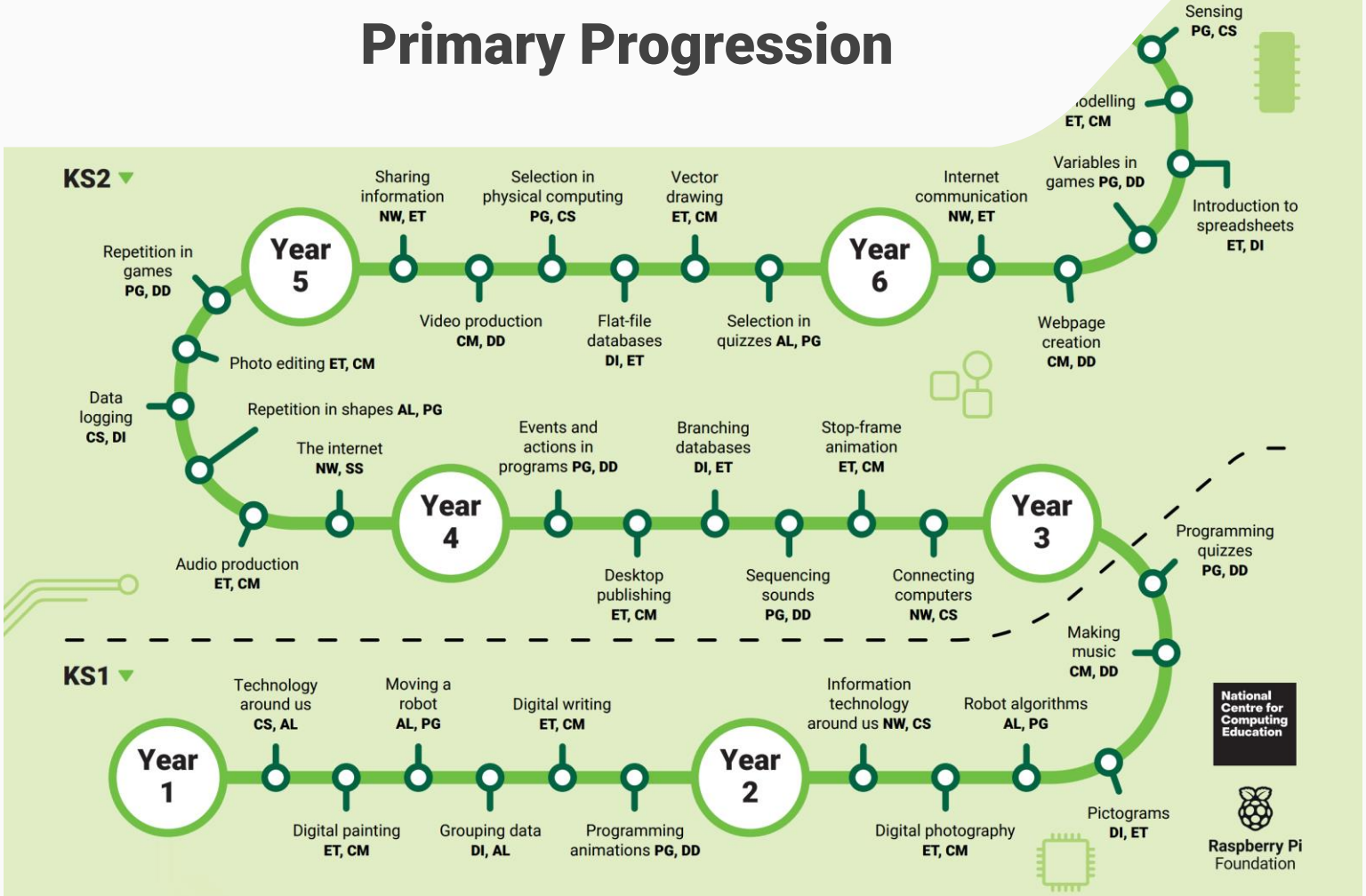


Teach Computing Curriculum

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



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

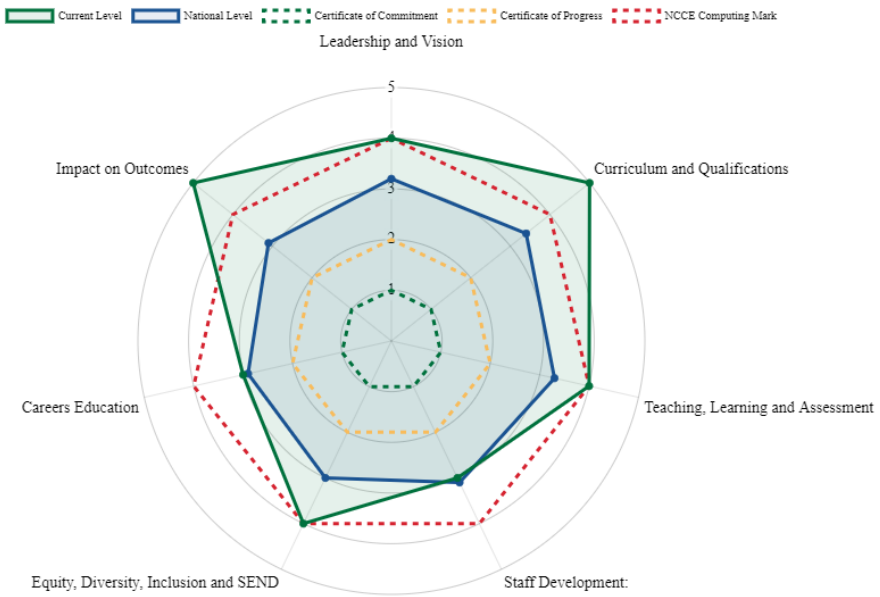
Consultancy Example

- 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



Accreditation

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

https://computingqualityframework.org/

Physical Computing Kit

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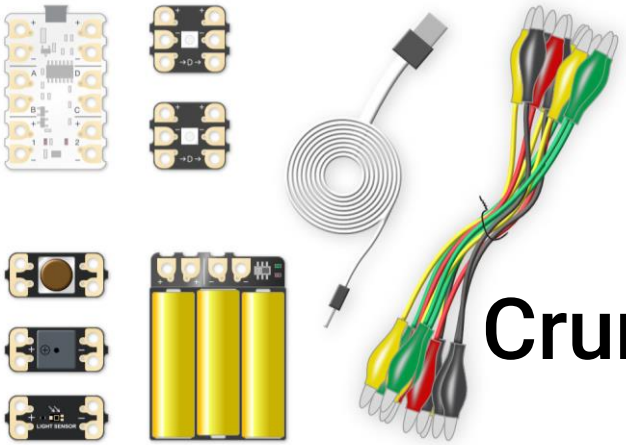
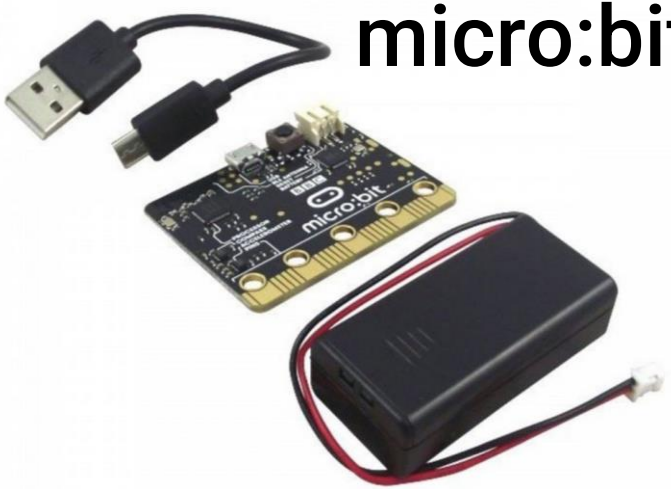


Crumble

micro:bit



Other activities

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

Any questions?

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