



What we can offer you and your school.

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**National
Centre for
Computing
Education**

Who are we?

- The National Centre for Computing Education is funded by the Department for Education and marks a significant investment in improving the provision of computing education in England.
- Run by a consortium made up of STEM Learning, the Raspberry Pi Foundation and BCS, The Chartered Institute for IT, our vision is to achieve a world-leading computing education for every child in England.

The logo for the National Centre for Computing Education, featuring the text "National Centre for Computing Education" in white on a dark blue square background.

National
Centre for
Computing
Education



Design vector graphics
CM, ET

Programming essentials: part II
AL, PG

Using media: gaining support for a cause
IT, ET

Collaborating online respectfully
ET, SS

3D modelling
ET, CM

Variables in games
PG, DD

Introduction to spreadsheets
ET, DI

KS2

Year 5

Year 6

Year 4

Year 3

Year 1

Year 2

Repetition in games
PG, DD

Sharing information
NW, ET

Selection in physical computing
PG, CS

Vector drawing
ET, CM

Internet communication
NW, ET

Webpage creation
CM, DD

Data logging
CS, DI

Photo editing
ET, CM

Video editing
CM, DD

Flat-file databases
DI, ET

Selection in quizzes
AL, PG

Repetition in shapes
AL, PG

The internet
NW, SS

Events and actions in programs
PG, DD

Branching databases
DI, ET

Stop-frame animation
ET, CM

Audio editing
ET, CM

Desktop publishing
ET, CM

Sequencing sounds
PG, DD

Connecting computers
NW, CS

Programming quizzes
PG, DD

Making music
CM, DD

Technology around us
CS, AL

Moving a robot
AL, PG

Digital writing
ET, CM

Information technology around us
NW, CS

Robot algorithms
AL, PG

Pictograms
DI, ET

Digital painting
ET, CM

Grouping data
DI, AL

Programming animations
PG, DD

Digital photography
ET, CM



The hub can offer,

A needs analysis meeting, to point you and your school in the most productive direction and meet your specific needs.

Ofsted deep dive preparation framework

1. Schemes of work / curriculum (Computing)

Questions	Discussed	Discussion Notes	RAG
How well is the planned curriculum implemented? What checks do you make? What changes do you make as a result?			
How do class teachers know what went before in previous years?			
What is your pedagogy in foundation subjects? How have you decided what knowledge and skills you expect pupils to learn?			
How is your curriculum coverage progressive throughout the academy? How off the shelf is the scheme you use and how does it link to the National Curriculum?			
What are you planning to be improved by the end of the academic year? Can you describe with clarity what will be different? How will you know if you have been successful?			

Ofsted deep dive preparation framework

2. Progress

Questions	Discussed	Discussion Notes	RAG
How do you make sure that children who get 'stuck' feel supported in lessons by other teachers?			
How as a subject lead do you know what is happening across the academy? What would I expect to see / hear?			
How do you adapt or tailor curriculum to meet the needs of children with different starting points? How do you stretch the higher attainers? How do you support the lower attainers? How is assessment used to improve curriculum design?			
How do you fill gaps in subject knowledge and decide on the order of learning?			

Ofsted deep dive preparation framework

3. Interventions

Questions	Discussed	Discussion Notes	RAG
What interventions are carried out in the academy?			
How are gaps in learning filled?			
What do you do to support children who are struggling?			
Are the staff conducting interventions? Are there subject specialists or support staff?			



Deep dive support

Help and support in building a curriculum that suits your schools needs, including making computing cross curricular.

A	B	C	D	E	F	G	H	I	J
Computing systems and Networks	IT around us	Computer suite/ipads? CS for lesson 2	Tech/resources	Evidence Class brainstorm and formative assessment	NC links ● Recognise common uses of information technology beyond school	Education for a connected world links Health, well-being and lifestyle	Cross-curricular links		
Creating Media	Making Music	CS for lessons 3-6	The Planets-Holst Percussion instruments, Chrome Music lab	Saved work in Chrome Music lab and formative assessment	● Use technology purposefully to create, organise, store, manipulate and retrieve digital content	Copyright and ownership	Music ● Play tuned and untuned instruments musically ● Listen with concentration and understanding to a range of high-quality live and recorded music ● Experiment with, create, select and combine sounds using the inter-related dimensions of music		
Creating Media	Digital Photography	ipads	Pixlr	Saved edited images and formative assessment	● Use technology purposefully to create, organise, store, manipulate, and retrieve digital content	Managing online information	Art and Design ● To develop a wide range of art and design techniques in using colour, pattern, texture, line, shape, form, and space		
Data and information	Pictograms	CS or ipads	Just 2 easy pictograms software	Screenshots of chns pictograms	● Use technology purposefully to create, organise, store, manipulate, and retrieve digital content ● use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies	Self- image and identity, privacy and security, Health, well-being and lifestyle	Maths ● interpret and construct simple pictograms, tally charts, block diagrams and simple tables ● ask and answer simple questions by counting the number of objects in each category and sorting the categories by quantity ● ask and answer questions about totalling and comparing categorical data		
	Robot Algorithms	Beebots		Photos and formative	● Understand what algorithms are, how they are implemented as programs on				

EFACW

EYFS & KS1 (4-7)

KS2 (7-11)

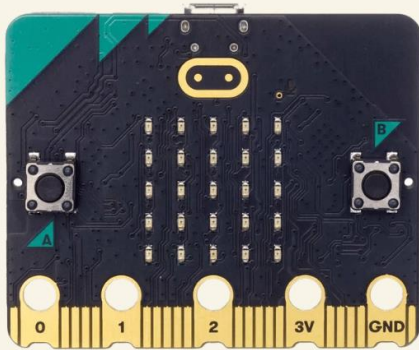
Year 1 NCFE

Year 2 NCFE

Year 3 NCFE

Year 4 NCFE ...

We loan out Microbit or Crumble kits, in 6 week blocks, to support the teaching of Physical Computing.



This comes with free training.

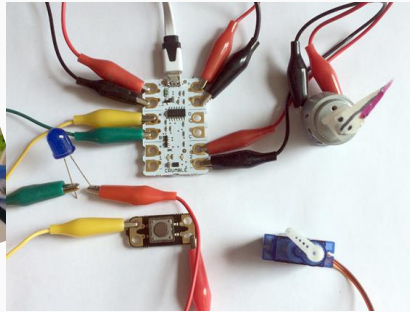


So, what else is around for free?

There are quite a few free programs used in the NCCE planning.

This has been put together by a team of teachers and experts, designed to help achieve the needs of the curriculum

I'm also very good at getting equipment for free and regularly share this information with the schools I support.



I can also support training with these:
Lego Wedo/Spike, Beebots, Crumbles, Micro bits, Makey-makey

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Courses:

For each school one teacher can receive a subsidy payment on completion of a full course, per academic year. Sometimes these are split over two days –it's all covered.

Some courses are free, after school and only last 45 minutes to 1 hour. There is no limit on the amount of staff who can attend these.

If your school has needs that other local schools have also identified I can run bespoke courses either remotely or face to face.

Some of the courses we can provide:

→ The main one is the Primary Computer Certificate:



If you want ones that I am specifically running or there is nothing in your geographical area, email me.

I need 5 schools in order to run a face-to-face course.

CP001_ Teaching key stage 1 computing_

CP002_ Teaching key stage 2 computing_

CP003_ Primary programming and algorithms

CP004_ Introduction to Primary Computing

[Face to face –23rd March, Woking](#)

CP005_ PILOT Outstanding primary computing for all

CP007_ Assessment of primary computing (blended)

[Face to face –4th February Isle of Wight](#)

CP008_PILOT Leading Primary Computing

CP252 PILOT - Physical Computing Kit - KS2 Crumble

CP462 - PILOT - Computing on a budget

[Face to face –Taster at the ICT conference in Brighton on March 11th](#)



Just email me to make an appointment
smcauley@bohunt.hants.sch.uk

or fill in the Google form
<https://forms.gle/9peprKAxNhiF4r5j9>

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