National Centre for Computing Education

The Castle School
ACHIEVE | BELONG | PARTICIPATE

SECONDARY COMPUTING COURSES

Somerset Computing Hub

2023/2024

LATEST ADDITION TO OUR COURSE TIMETABLE!

FREE Remote Course

Representing algorithms using flowcharts and pseudocode for AQA specification

13 June 2024 – https://tinyurl.com/5xmjp6w4

18,19 & 20 June 2024 (course held over twilight sessions) - https://tinyurl.com/y4b9wcp4

An understanding of algorithms is vital for success in computer science. Students need to know how algorithms are designed to solve a problem, and how these designs are represented to other humans. This course references the AQA 8525 9-1 GCSE Computer Science specification.

During this course, you'll develop 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.

Subsidies* available for full day courses £££

All courses are FREE of charge!**

Click the link above for details and to book your place!

**for state-maintained schools
(*twilight sessions are not eligible for subsidies)

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FREE Remote Course

An Introduction to algorithms, programming and data in computer science

24 April 2024 – http://tinyurl.com/mxw38cd8

Take your first steps towards teaching computer science and establish a foundational knowledge of concepts, terminology and classroom practice. Find out how algorithms are designed and how programs are written to provide clear instructions to machines. Learn about the binary system used by computers to store and process data, and how to convert to and from the familiar denary system of numbers zero to nine.

Create some simple block-based computer programs and discover how to implement them using the Python programming language. Use your knowledge to write programs that can handle user input and manipulate variable values before outputting simple messages to the screen.

Subsidies* available for full day courses £££

All courses are FREE* of charge!

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FREE Remote Course

Foundation knowledge of computer science for KS3 and GCSE

8 May 2024 – http://tinyurl.com/5a5tz8uz
4 June 2024 - http://tinyurl.com/2pnp8vub

A high-quality computer science education equips students to use computational thinking and creativity to understand and change the world. Computer science forms the core of the computing national curriculum, a foundation subject and a vital aspect of a broad and balanced curriculum for all learners. If you're new, moving towards or an existing teacher of Key Stage 3/GCSE computer science, then this course will allow you to explore the foundation subject knowledge.

The sessions within this course are designed to give you the subject knowledge around key topics such as algorithms, data representation, hardware and programming, whilst also exploring useful and engaging strategies for delivering this content in the classroom.

Subsidies* available for full day courses £££

All courses are FREE* of charge!

Click the link above for details and to book your place!

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Remote Self-Paced Courses

The courses below are online, self-paced courses and can be completed flexibly. You may join and start these course at any time after the advertised date. The courses are not facilitated. You can learn independently or with colleagues to directly address your individual needs.

Creating an Inclusive Classroom: Approaches to Supporting Learners with SEND in Computing

The course is available to start at your convenience! https://tinyurl.com/rearaez5

Programming Pedagogy in Secondary Schools: Inspiring Computing Teaching

The course is available to start at your convenience! https://tinyurl.com/bdh59k38

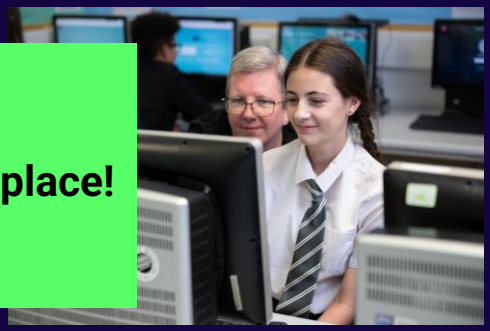
Teach Computing in Schools: Creating a Curriculum for Ages 11 to 16

The course is available to start at your convenience! https://tinyurl.com/28yjt87x

All courses are FREE* of charge!

Click the links above for details and to book your place!

*for state-maintained schools



We hope to work with you very soon!

Contact us at **teachcomputing@castle.bep.ac**

National Centre for Computing Education

STEM LEARNING