

# Learning pathway: New to computing

## Who is this pathway for?

For teachers who are new to computing and computer science, this learning pathway will give you a comprehensive introduction to the whole GCSE curriculum.

Key stage 4



2 remote learning courses



2 online courses

1

### Introduction to algorithms, programming & data

Create some simple block-based computer programs and discover how to implement them in Python.



CP428 remote course

2

### Introduction to computer systems, networking & security

Learn about the different components of computer hardware, including devices not instantly recognisable as computers.



CP438 remote course

3

### Programming 101: an introduction to python for educators

Explore the basics of Python. Guided by the Raspberry Pi Foundation, you'll learn to code your first program.



C0207 online course

4

### Impact of technology: how to lead classroom discussions

Discover the ethical, legal, cultural, and environmental concerns surrounding computer science.



C0215 online course

As you're new to computing, we would recommend that you also participate in one or more of our **featured courses...**

## Remote learning:

Live courses that are delivered online by our network of Computing Hubs and can be accessed from home. Remote learning offers the flexibility of short sessions designed to fit around your day.

### Other courses to enhance this pathway:

- CP422 - Fundamentals of computer networks
- CP423 - Python programming constructs: sequencing, selection and iteration
- CP420 - Representing algorithms using flowcharts and pseudocode
- CP431 - Computer processors

## Online courses:

On-demand courses that offer a new and exciting way to learn about computing and digital making. Take part in these free online courses and learn at your own pace, in the comfort of your own home.

### Other courses to enhance this pathway:

- CO214 - An introduction to computer networking for teachers
- CO206 - How computers work: demystifying computation
- CO209 - Representing data with images and sound: bringing data to life
- CO213 - Understanding maths and logic in computer science

## Take the next step

To find out more about the programme, our national support network and how we can help, email the team at [info@teachcomputing.org](mailto:info@teachcomputing.org)