

Learning pathway: New to algorithms & programming

Who is this pathway for?

For teachers who have a good understanding of computer systems but need help with programming, this learning pathway will improve your subject knowledge to meet the requirements of GCSE computer science.

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

Programming 101: an introduction to Python for educators

Learn how programs are constructed using the building blocks of sequencing, selection and iteration.



CO207 online course

3

Python programming constructs

Learn how programs are constructed using the building blocks of sequencing, selection and iteration.



CP423 remote course

4

Programming 102: think like a computer scientist

Take your Python skills further. Guided by the Raspberry Pi Foundation, you'll explore algorithms and list structures.



CO208 online course

You might also consider...

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:

CP433 - Python programming: working with data

CP420 - Representing algorithms using flowcharts and pseudocode

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:

CO219 - Programming 103: saving and structuring data

CO209 - Representing data with images and sound: bringing data to life

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