

# Learning pathway: New to algorithms and programming

## Who is this pathway for?

For computing trainee 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

Programming 101: an introduction to python for educators

CO207 online course

2

Representing algorithms using flowcharts and pseudocode

CP420 remote course

3

Python programming constructs – sequencing, selection & iteration

CP423 remote course

4

Understanding maths and logic in computer science

CO213 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 daily sessions designed to fit around your day.

### Other courses to enhance this pathway:

- Python programming - working with data
- Introduction to algorithms, programming and data

## 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:

- Impact of technology: how to lead classroom discussions
- Data with images and sound: bringing data to life
- Programming 102: think like a computer scientist
- Understanding computer systems

## 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)