

## Primary programming and algorithms

Discover engaging and effective ways to help children use computational thinking in this 1 day course.

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### Summary

**This course is delivered as part of the National Centre for Computing Education.**

Programming and algorithms are fundamental to the primary computing curriculum. Algorithms are clear and unambiguous instructions to solve problems which can often be translated using a programming language for a computer to follow. By thinking computationally, children can harness the power of computers to extend their capabilities.

During this one-day professional development, you will discover engaging and effective ways to help children use computational thinking. You will be equipped to develop their knowledge of how technology works, and the skills to make computers follow instructions in simple programs. A range of approaches will be explored, including 'unplugged' activities that require no computer, and multimedia activities that allow creativity and promote widespread engagement.

The professional development will highlight the differences and commonalities across Key Stages 1 and 2, helping all primary teachers to plan for age-appropriate learning while developing an understanding of progression through computing.

### Outcomes

You will be able to:

- Discover a range of different teaching techniques that are supported by research, to improve how your school delivers lessons that use algorithms and programming.

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**Regional Delivery Partner  
for North West England**

- Learn about debugging, sequence, repetition, selection and variable use and the common misconceptions that hinder pupil progress.
- Come away with lots of resources that you can use to develop how teachers in your schools understand, plan and teach computing.
- Understand what computational thinking is and how it affects teaching programming

**Price: £35 per delegate\***

\*For schools in priority 5/6 areas the first teacher to participate in this CPD will attend for free and will be eligible for a bursary of £100 per day. This is funded by NCCE.

(Priority 5/6 areas are Salford, Oldham, Rochdale, Tameside, Warrington, St Helens, Halton, Wirral, Knowsley, Sefton, Liverpool)

This is a 1 day course.

Course Dates - Liverpool

22 March 2019

5 April 2019

17 May 2019

Course Dates - Manchester

4 April 2019

29 April 2019

4 July 2019

Sign up to courses via: <https://teachcomputing.org>