

## CPD Steps: KS1 & 2 Key Vocabulary

**algorithm** **program** **debugging**  
**sequence** **variable** **procedure**  
**programming language**  
**function** **computational logic**  
**software** **hardware** **operating**  
**system** **abstraction**

## CPD Steps: The Computing Strands

### Key stage 2

Pupils should be taught to:

- design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts
- use sequence, selection, and repetition in programs; work with variables and various forms of input and output
- use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs
- understand computer networks including the internet; how they can provide multiple services, such as the world wide web; and the opportunities they offer for communication and collaboration
- use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content
- select, use and combine a variety of software (including internet services) on a range of digital devices to design and create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information
- use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.

Computer Science  
 Information Technology  
 Digital Literacy  
 E-Safety



	Year 3	Year 4	Year 5	Year 6
Autumn 1	Digital Safety	Digital Safety	Digital Safety	Digital Safety
Autumn 2	Programming Scratch	Micro: bits Animation	Mars Rover	History of Computing
Spring 1	Data Handling	Website Design	Micro: bits Music	Micro: bits
Spring 2	Digital Safety	Digital Safety	Digital Safety	Digital Safety
Summer 1	Micro: bits	Collaborative Learning – Google	Micro: bits	Micro: bits
Summer 2	Computer Systems and Networks	Micro: bits	Google Systems	