

Computing Progression

By the end of Early Years: -Children recognise that a range of technology is used in places such as homes and schools.
Children select and use technology for a particular purpose.

By the end of KS1	By the end of KS2 (lower)
<ul style="list-style-type: none"> Understand what algorithms are; how they are implemented as programmes on digital devices: and that programs execute by following precise and unambiguous instructions. Create and debug simple systems Use logical reasoning to predict the behaviour of simple programs Recognise common uses of information technology beyond school Use technology purposefully to create, organise, store, manipulate and retrieve digital content Use technology safely and respectfully, keeping personal information private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies. 	<ul style="list-style-type: none"> 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 worldwide web; and the opportunities they offer for communication and collaboration Use search technologies effectively, appreciate how results are selected and ranked, and to be discerning in evaluating digital content. Select, use and combine a variety of software 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.

Contexts	Year 1	Year 2	Year 3	Year 4
Computer Systems and Networks	Technology all around us	IT around us	Connecting computers	The internet
Creating Media	Digital painting	Digital photography	Stop-frame animation	Audio production

Programming A	Moving a robot	Robot algorithms	Sequencing sounds	Repetition in shapes
Data and Information	Grouping data	Pictograms	Branching databases	Data logging
Creating Media	Digital writing	Digital music	Desktop publishing	Photo editing
Programming B	Programming animations	Programming quizzes	Events and actions in programmes	Repetition in games