

Computing Key Learning Indicators

	Computer Science	Information Technology	Digital Literacy
Year 1	<ul style="list-style-type: none"> Sequence a simple set of instructions; Follow and give instructions related to position and direction; Debug simple algorithms 	<ul style="list-style-type: none"> Type words using a variety of keyboards; Select appropriate icons from a screen 	<ul style="list-style-type: none"> Memorise a simple username and password; Understand what appropriate online behaviour is; Know who trusted adults are; Learn and recite the academy's <i>Rules of acceptable ICT use</i> for Key Stage 1
	Vocabulary: algorithm, debug, sequence	Vocabulary: digital content	Vocabulary: information
Year 2	<ul style="list-style-type: none"> Create and debug simple programs consisting of instructions; Use logical reasoning to predict the behaviour of simple algorithms 	<ul style="list-style-type: none"> Write sentences using word processing software; Save and retrieve documents 	<ul style="list-style-type: none"> Use technology safely and respectfully, keeping personal data private; identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies; Recognise common uses of information technology beyond school
	Vocabulary: algorithm, debug, sequence	Vocabulary: digital content, software	Vocabulary: information, data
Year 3	<ul style="list-style-type: none"> Create and debug complex algorithms; Design simple programs for a user 	<ul style="list-style-type: none"> Define the internet and the World Wide Web; Use search technologies effectively, making use of filter systems; Show awareness of page-ranking systems when analysing search results 	<ul style="list-style-type: none"> Understand the rules and regulations of digital citizenship; Be aware of their digital footprint; Adhere to the school's <i>Rules of acceptable ICT use</i> for Key Stage 2
	Vocabulary: algorithm, debug, sequence, program	Vocabulary: internet, World Wide Web, search	Vocabulary: information, data
Year 4	<ul style="list-style-type: none"> Design, write and debug programs that accomplish specific goals; Write basic lines of code; Use logical reasoning to fix bugs and solve problems; Work with various forms of input and output 	<ul style="list-style-type: none"> Differentiate sponsored and actual search results; Critique high and low-quality websites, identifying whether content is true, age-appropriate and relevant 	<ul style="list-style-type: none"> Understand legal and ethical responsibilities regarding internet content; Observe terms and conditions of certain websites
	Vocabulary: algorithm, debug, sequence, program, logical reasoning, repetition, input, output	Vocabulary: internet, World Wide Web, search	Vocabulary: information, data

<p>Year 5</p>	<ul style="list-style-type: none"> • 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; • Identify and define conditions and selections affecting algorithms 	<ul style="list-style-type: none"> • Select, use and combine a variety of software (including internet services) on a range of digital devices to design; • Create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information 	<ul style="list-style-type: none"> • Use online indicators, including the green padlock, to evaluate the safety of websites; • Identify a range of ways to report concerns about content and contact; • Be discerning in evaluating digital content; • Explore the consequences of our actions online, such as cyberbullying, trolling, etc.
	<p>Vocabulary: algorithm, debug, sequence, program, logical reasoning, repetition, input, output, variables, selection, repetition</p>	<p>Vocabulary: internet, World Wide Web, search, services</p>	<p>Vocabulary: information, data</p>
<p>Year 6</p>	<ul style="list-style-type: none"> • Create increasingly complex algorithms used to control physical systems; • Create increasingly complex algorithms designed to simulate the state and behaviour of real-world systems 	<ul style="list-style-type: none"> • Understand computer networks including the internet; how they can provide multiple services, such as the World Wide Web; • Select, use and combine a variety of software (including internet services) on a range of digital devices to design; • Create a range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information 	<ul style="list-style-type: none"> • Use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; • Identify a range of ways to report concerns about content and contact; • Understand the opportunities networks offer for communication and collaboration; • Know the legal age restrictions on popular websites and platforms
	<p>Vocabulary: algorithm, debug, sequence, program, logical reasoning, repetition, input, output, variables, selection, repetition, control, simulation</p>	<p>Vocabulary: internet, World Wide Web, search, services, computer networks</p>	<p>Vocabulary: information, data</p>