



Sticky Knowledge: Computing

Year 1	Year 2
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to create a series of instructions and plan a journey for a programmable toy 	<ul style="list-style-type: none"> <input type="checkbox"/> I know and understand that algorithms are used on digital devices
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to create, store and retrieve digital content 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to write a simple program and test it
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to use a website and a camera 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to predict what the outcome of a simple program will be (logical reasoning).
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to record sound and play back 	<ul style="list-style-type: none"> • I know and can understand that programs require precise instructions and I know how to organise, retrieve and manipulate digital content
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to use technology safely 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how technology is used in school and outside of school
<ul style="list-style-type: none"> • I know how to keep my personal information private 	<ul style="list-style-type: none"> • I know where to go for help if I'm concerned.



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Year 3	Year 4
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to write programs that accomplish specific goals 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to give an 'on-screen' robot specific instructions that takes them from A to B
<ul style="list-style-type: none"> • I know how to design a sequence of instructions, including directional instructions 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to experiment with variables to control models
<ul style="list-style-type: none"> <input type="checkbox"/> I know when it is best to use technology and where it adds little or no value 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to make an accurate prediction and explain why I believe something will happen (linked to programming)
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to navigate the web to complete simple searches and understand what computer networks do and how they provide multiple services 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to select and use software to accomplish given goals
<ul style="list-style-type: none"> • I know how to use a range of software for similar purposes and how to collect and present information 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to produce and upload a podcast
<ul style="list-style-type: none"> • I know how to use technology respectfully and responsibly and know different ways I can get help, if I'm concerned about anything 	<ul style="list-style-type: none"> <input type="checkbox"/> I know and can recognise acceptable and unacceptable behaviour using technology



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Year 5	Year 6
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to use technology to control an external device 	<ul style="list-style-type: none"> <input type="checkbox"/> I understand how computers are able to communicate and share information. <input type="checkbox"/> I know how to use and combine services on the internet to share information.
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to design algorithms that use repetition and 2-way selection 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to use more than one piece of software to complete a task.
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to analyse and evaluate information 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to protect my computer/device from harm on the internet. <input type="checkbox"/> I know how to report concerns about content both in and out of school.
<ul style="list-style-type: none"> <input type="checkbox"/> I can understand how search results are selected and ranked 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to combine software and hardware to solve real life problems.
<ul style="list-style-type: none"> <input type="checkbox"/> I know how to combine sequences of instructions and procedures to turn devices on and off 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to use loops, variables and IF statements to alter the way my program runs.
<ul style="list-style-type: none"> <input type="checkbox"/> I know and understand that I have to make choices when using technology and that not everything is true and/or safe 	<ul style="list-style-type: none"> <input type="checkbox"/> I know how to use logical thinking to identify and solve potential bugs during coding.