

Cambois Primary School.

Computer Progression Document.

Computational Thinking.			
Year Group	NC Objectives	Skills/Knowledge	Apps and Links
EYFS	Children recognise that a range of technology is used in places such as homes and schools. They select and use technology for particular purposes.	I can follow simple oral instructions • I can spot simple patterns, such as similarities and differences • I can sequence simple familiar tasks	MrPICT.com resources.
1	• Co2/1.1 understand what algorithms are; how they are implemented as programs on digital devices; and that programs execute by following precise and unambiguous instructions •	• I understand what algorithms are • I can write simple algorithms • I understand the sequence of algorithms is important • I can debug simple algorithms	MrPICT.com resources.
2	Co2/1.2 create and debug simple programs • Co2/1.3 use logical reasoning to predict	I can write algorithms for everyday tasks • I can use logical reasoning to predict the outcome of algorithms • I understand decomposition is breaking objects/processes down • I can debug algorithms	MrPICT.com resources.

	the behaviour of simple programs		
3	Co2/1.1 design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems;	I can create algorithms for my programming projects • I can decompose projects (such as an animation) into steps to create an algorithm • I understand abstraction is focusing on important information • I can identify patterns in an algorithm	MrPICT.com resources.
4	solve problems by decomposing them into smaller parts • Co2/1.2 use sequence, selection, and repetition in programs;	• I can use abstraction to focus on what's important in my design • I can write more precise algorithms for use when programming • I can use simple selection and repetition in algorithms • I can use logical reasoning to detect and correct errors in programs	MrPICT.com resources.
5	work with variables and various forms of input and output • Co2/1.3 use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs •	I can solve problems by decomposing them into smaller parts • I can use selection in algorithms • I can use logical reasoning to explain how a variety of algorithms work • I can evaluate the effectiveness of algorithms	MrPICT.com resources.
6	Co2/1.4 understand computer networks including the internet; how they can provide	I can write precise algorithms for use when programming • I can decompose a design or code to focus on specific parts • I can use abstraction to hide complexity in my design or code • I can recognise and make use of patterns in my design and code • I can critically evaluate my work and suggest improvements	MrPICT.com resources.

	<p>multiple services, such as the world-wide web; and the opportunities they offer for communication and collaboration.</p> <p>range of programs, systems and content that accomplish given goals, including collecting, analysing, evaluating and presenting data and information.</p>		
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