Key Curriculum Skills, Knowledge and Progression: Computing



gorithms are lists of simple Understand that algorithms are lists of simple
plete an activity instructions to complete an activity and begin to
explore more complex systems
simple programs by breaking
o step by step instructions Create and debug programs by breaking programs
down into step by step instructions
rposefully to create pictures, text
Understand what a program is likely to do based on a
set of instructions
log on and create files
Use technology purposefully to create pictures, text,
n uses of information technology audio and use numbers
Understand how to log on, create files and save work
ely and respectfully, keeping that can be retrieved
on private
Recognise common uses of information technology
o for help and support when they beyond school
ut content or contact on the internet
nnologies. 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
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Year 3	Year 4	Year 5	Year 6
Design, write and debug programs	Design, write and debug programs that	Design, write and debug programs that	Design, write and debug programs that
	accomplish specific goals	accomplish specific goals, including	accomplish specific goals, including
Understand how changing variables		simulating physical systems	controlling physical systems
affect the outcomes	Be able to create sequences and make		
	selections	Know the effect of variables in a program	To understand the effect of inputs
Be able to use logic to explain why a			(adding data into a program or compute
program does or doesn't work	Be able to use logic to explain why a	Be able to sequence, make selections	system) and outputs/variables
	program does or doesn't work and begin	and use repetition in programs	
Be able to retrieve information efficiently	to suggest alternative solutions		Be able to develop logical reasons
when searching online		Be able to develop logical reasons	(applying rules in a systematic way to
ŭ	To appreciate how information and links	(applying rules in a systematic way to	complete a task) to detect and correct
Select, use and combine a variety of	are selected when searching online	complete a task) to detect errors (bugs)	errors (bugs)
software to design and create a range of	J	, , , , , , , , , , , , , , , , , , , ,	, <i>G</i> ,
content, including presenting data and	Select, use and combine a variety of	Be able to email safely and collaborate	Understand that networks, including the
information using PowerPoint	software on a range of digital devices to	and share on shared sites and	internet, can provide multiple services
Ğ	design and create a range of programs	understand how this is possible within	and appreciate how the network
Learn how to use technology safely,	and content that accomplish given goals	simple networks.	operates
respectfully and responsibly	l a ser se se se se se per l		
, , , , , , , , , , , , , , , , , , , ,	Recognise acceptable/unacceptable	Use as a communication tool to go	To appreciate how information and links
	behaviour online	beyond emailing (E.g. blogging)	are ranked when searching online
		(2.8. 2.28.27)	g
		Design and create a range of content	To use IT to create multimedia
		that accomplish given goals, including	presentations for audiences beyond the
		numerical and data applications e.g.	classroom
		Excel, podcasting and safe use of	3.333.33
		messaging	Always use technology safely,
			respectfully and responsibly
		Identify a range of ways to report	Topotally and responding
		concerns about content and contact	
		online	

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