



Computing Curriculum Milestones

Connecting	Big Idea	Year R	Years 1 & 2	Years 3 & 4	Years 5 & 6
Stone	(NC links)				
Stone E-Safety	(NC links) Understand the importance of and practise how to stay safe online.	Understand how to stay safe online.	Define, identify and explain the importance of a password for online safety Use technology safely and respectfully, understand how to achieve this and	Define, identify and explain what makes a password secure Recognise, apply knowledge of and explain how to be safe and respectful online Know, articulate	Explain, apply knowledge of and investigate the consequences of sharing too much information online Recognise, examine and measure the impact of acceptable/unacceptable online behaviours
			highlight to an adult when I see something worrying online	and reflect upon the fact that anything I post online can be seen by others.	Describe, classify and evaluate the use and effect of digital content on the user











	Use, apply	Recognise, use and	Use, compare and review
	knowledge of and	explain the parts of	different appropriate
	appraise links to	a computer	online communication
	websites to find		tools for different
	information	Use, classify and	purposes.
		appraise the	
	Know, explain and	reliability of	Use, evaluate and grade
	discuss how online	information I find on	search engines to find
	content has been	the internet	appropriate information
	created by other		and check reliability
	people.	Recognise, apply	
		knowledge of and	Recognise, evaluate and
	Know, compare and	evaluate the use of	prove the reliability of
	prove the differences	appropriate images	information I find on the
	between the online	found online.	world wide web.
	and physical world.		
			Understand, explain and
			investigate the meaning
			of copyright and find out
			who online information
			belongs to.







					Recognise, use and
					evaluate the
					effectiveness of
					hyperlinks in the online world
multimedia	Understand and	Use new vocabulary	Experiment with,	Apply knowledge of,	Identify, use and
(D).	select appropriate	and ask questions to	select and adapt	review and adapt	evaluate the
	multimedia.	ensure there is	different technology	different effects	effectiveness of editing
		understanding of	tools to present my	with different	tools to refine my work.
		what has been said.	ideas	technology tools,	
				including text	Recognise, apply
		Use talk to help	Understand, use and		knowledge of and
		work out problems	adapt the use of	Create, modify and	appraise learnt skills
		and organise	keyboards on a	present documents	when using unfamiliar
		thinking and	device	for a particular	technology.
		activities, and to		purpose (text,	
		explain how things	Begin to use, apply	graphics and	Identify, discuss and
		work and why they	knowledge of and	sound).	evaluate audience
		might happen.	explain file functions		atmosphere and
			on a device (save	Know, develop and	structure when planning
			and retrieve etc)	create appropriate	a particular outcome.
				keyboard	







	Name, explain and	commands to	Locate, implement and
	discuss the use of	support programs.	critique an appropriate
	online tools to share		online/offline tool to
	ideas with others.	Explore, experiment	create and share ideas.
		with and evaluate	
		the effectiveness of	Comment on, appraise
		new media to create	and measure the
		atmosphere when	effectiveness of my work
		presenting.	and the work of others in
			the digital world.
		Evaluate, improve	
		and reflect upon the	
		effectiveness of	
		mine and my peers'	
		learning	
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		Select, apply	
		knowledge of and	
		evaluate	
		appropriate tools to	
		share my learning	
		online.	







coding	Use the language	Listen to and follow	Give, act out and	Identify, implement	Deconstruct a problem
,	and procedures of	sequenced	compose instructions	and program	into smaller parts, design
*.code	computer	instructions.	to a friend to move	commands into a	an algorithm for a
	program		around.	sequence to achieve	specific outcome and use
	effectively.			a desired outcome.	this to write a program.
			Identify, implement		
			and evaluate a	Outline, implement	Select, test and evaluate
			sequence of	and experiment with	the effectiveness and
			commands and	my program and	efficiency of my
			begin to refer to this	recognise when	algorithm.
			an algorithm.	there is a problem	
				and I need to debug	Recognise, implement
			Experiment with,	it.	and reflect on the
			predict and evaluate		effectiveness of 'if' and
			an algorithm.	Recognise,	'then' commands to
				implement and test	select an action.
			Observe, examine	a variety of tools to	
			and evaluate a	create a program.	Recognise, examine and
			program to debug it		comment on how a
			effectively.	Locate, choose and	computer model can
				experiment with a	





		sensor to detect a	provide information
		change which can	about a physical system.
		select an action	
		within my program.	Recognise, apply
			knowledge of and detect
		Select, present and	when I need to use a
		evaluate the	variable/operators to
		algorithm I will need	achieve a required
		for a simple task.	output and to stop a
			program.
		Identify, apply and	
		test an efficient	Identify, apply and
		procedure to	facilitate different inputs
		simplify a program.	to control a device or
			onscreen action and
		Recognise, link and	predict what will happen.
		measure the impact	
		of using algorithms	Recognise, choose and
		to help solve	test a variable to
		problems in other	increase programming
		learning such as	possibilities.

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				maths, science and DT.	
data handling	Process a range of information	Articulate my thoughts and ideas	Identify, choose and assess the different	Categorise, structure and	Collect and record and evaluate data on a
	effectively.	in well-formed sentences.	ways in which information can be	manage data in different ways.	spreadsheet.
		Use talk to help work out problems	e.g. camera, sound recorder.	Plan, create and search a ready-	evaluate the most effective tool to collect
		and organise thinking and activities, and	Identify, organise	made database to answer questions.	data for my investigation.
		explain how things work and why they happen.	different kinds of information and present it to others.	Identify, organise and present data to help me answer a	Plan, prepare and implement the process needed to investigate
			Gather, experiment	question.	the world around me.
			information on a pictograph and talk	and evaluate when collected data may	navigate a database using different operators
			about what I have found out.	be inaccurate.	to refine my search.





information I could

use to help me investigate a

question.

