

Voor 1/2		Conting A	Cump mage # A	Auture D	Conting D	Cummer or D
Tear 1/2	Autumn A	Spring A	Summer A	Autumn B	Shring p	Summer B
	Why is Richmond	What's it made of	How do people tell	How do I care for	What makes a	Why is our
	Special?	and why?	their stories?	my body and	good home?	environment
				mind?		precious?
	<u>Algorithms</u>	Create Programs	Reasoning	Safe Use	Uses of IT beyond	Using Technology
	Pupils should be	Pupils should be	Pupils should be	Pupils should be	school	Pupils should be
	taught to	taught to create	taught to use	taught to use	Pupils should be	taught to use
	understand what	and debug simple	logical reasoning to	technology safely	taught to recognise	technology
	algorithms are;	programs.	predict the	and respectfully,	common uses of	purposefully to
	how they are		behaviour of simple	keeping personal	information	create, organise,
	implemented as	Create, store and	programs.	information	technology beyond	store, manipulate
	programs on digital	retrieve digital		private; identify	school.	and retrieve digital
	devices; and that	content.	Predict what the	where to go to for		content.
	programs execute		outcome of a	help and support	Talk about some of	
	by following precise	Write a simple	simple program will	when they have	the IT uses in their	Use a website and
	and unambiguous	program and test	be (logical	concerns about	own home.	a camera.
	instructions.	it.	reasoning).	contact on the		
				internet or other	Know how	Record sound and
	Create a series of			online	technology is used	play back.
	instructions and			technologies.	in school and	
	plan a journey for a				outside of school.	Understand that
	programmable toy.					programs require



	Understand that			Use technology safely.		precise instructions.
	algorithms are used			Keep personal		Oursenies autoisus
	on digital devices.			ntormation		Organise, retrieve
				Know where to go		digital content
				for help if		
				concerned.		
Year 3/4	Autumn A	Spring A	Summer A	Autumn B	Spring B	Summer B
	Why is Richmond	What is beneath us	How do we get our	How do I care for	Why is history	How can I have my
	special?	and why does it	message across?	my body and	worth knowing?	say?
		matter?		mind?		
	Search Engines	<u>Networks</u>	Using Programs	Safe Use	<u>Reasoning</u>	Create Programs
	Pupils should be	Pupils should be	Pupils should be	Pupils should be	Pupils should be	Pupils should be
	taught to use	taught to	taught to select,	taught to use	taught to use	taught to design,
	search technologies	understand the	use and combine a	technology safely,	logical reasoning to	write and debug
	effectively,	computer networks	variety of software	respectfully and	explain how some	programs that
	appreciate how	including the	(including internet	responsibly;	simple algorithms	accomplish specific
	results are selected	internet; how they	services) on a range	recognise	work and to detect	goals, including
	and ranked, and be	can provide	of digital devices to	acceptable/	and correct errors	controlling or
	discerning in	multiple services,	design and create a	unacceptable	in algorithms and	simulating physical
		such as the world	range of programs,	behaviour; identify	programs.	systems; solve



evaluating digital content.	wide web; and the opportunities they	systems and content that	a range of ways to report concerns	Discern when it is	problems by decomposing them
	offer for	accomplish given	about content and	best to use	into smaller parts.
Use a range of	communication and	goals, including	contact.	technology and	
software for similar	collaboration.	collecting,		where it adds little	Write programs
purposes.		analysing,	Use technology	or no value.	that accomplish
	Navigate the web	evaluating and	respectfully and		specific goals.
Collect and present	to complete simple	presenting data	responsibly.	Make an accurate	
information.	searches.	and information.	Karawa different	prediction and	Give an 'on-screen'
Coloct and use	Keensherste		Know different	explain why they	robot specific
select and use	Know now to	Understand what	ways they can get	believe sometning	takes them from A
software to	information and	do and how thoy	neip il concerned.	to programming)	to P
goals	know which	nrovide multiple	Recognise	to programming).	IU B
goals.	information is	services	acceptable and		
Develop Programs	useful and which is		unacceptable		
Pupils should be	not.	Produce and	behaviour using		
, taught to use		upload a podcast.	technology.		
sequence,					
selection, and					
repetition in					
programs ; work					



Year 5/6	 with variables and various forms of input and output. Design a sequence of instructions, including directional instructions. Experiment with variables to control models. Autumn A Why is Richmond special? 	Spring A Where does it come from and	Summer A How do words make us feel?	Autumn B How do I care for my body and	Spring B What legacy will I leave behind?	Summer B What makes a colourful world?
		where does it go?		mind?		
	Create Programs	Reasoning	Using Technology	Safe Use	Reasoning	Create Programs
	Develop a program	Analyse and	Combine	Understand that	Analyse and	Use technology to
	that has specific	evaluate	sequences of	they have to make	evaluate	control an external
	variables identified.	information	instructions and	choices when using	information	device.



D si p ru v	Develop a equenced program that has epetition and /ariables identified	reaching a conclusion that helps with future developments. Design algorithms that use repetition and 2-way selection.	procedures to turn devices on and off. Present the data collected in a way that makes it easy for others to understand.	technology and that not everything is true and/or safe. Be increasingly aware of the potential dangers in using aspects of IT and know when to alert someone if feeling uncomfortable.	reaching a conclusion that helps us with future developments. Design algorithms that use repetition and a 2-way selection.	Write a program that combines more than one attribute.
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