Aims:	Year 1	Year 2	Year 3	Year 4	Year 5	Year 6
Understand and	Understand what	Understand that	design, write and	design, write and debug	design, write and debug	design, write and debug
apply principles	algorithms are and	algorithms are used	debug programs	programs that accomplish	programs that	programs that
of computer	how they are	to create programs	that accomplish	specific goals, including	accomplish specific	accomplish specific
science.	implemented as	that execute by	specific goals,	controlling or simulating	goals, including	goals, including
	programs on digital	following precise and		physical systems	controlling or simulating	controlling or simulating
	devices.	unambiguous			physical systems; solve	physical systems; solve
		instructions.			problems by	problems by
					decomposing them into	decomposing them into
					smaller parts	smaller parts
Analyse	Create and debug	Use logical reasoning	use sequence,	use sequence, selection,	use logical reasoning to	use logical reasoning to
problems in	simple programs	to predict the	selection, and	and repetition in	explain how some simple	explain how some simple
computational		behaviour of simple	repetition in	programs; work with	algorithms work	algorithms work and to
terms.		programs	programs	variables and various		detect and correct errors
				forms of input and output		in algorithms and
						programs
Evaluate and	recognise common	recognise common	understand	understand computer	understand computer	understand computer
apply	uses of information	uses of information	computer networks	networks including the	networks including the	networks including the
informational	technology	technology beyond	including the	internet; how they can	internet; how they can	internet; how they can
technology.		school	internet;	provide multiple services,	provide multiple	provide multiple
				such as the world wide	services, such as the	services, such as the
			select, use and	web	world wide web; and the	world wide web; and the
			combine a variety		opportunities they offer	opportunities they offer
			of software	select, use and combine a	for communication and	for communication and
			(including internet	variety of software	collaboration	collaboration
			services) on a	(including internet		
			range of digital	services) on a range of	select, use and combine	select, use and combine
			devices to design	digital devices to design	a variety of software	a variety of software
			and create a range	and create a range of	(including internet	(including internet
			of programs,	programs, systems and	services) on a range of	services) on a range of
				content that accomplish	digital devices to design	digital devices to design
				given goals	and create a range of	and create a range of
					programs, systems and	programs, systems and
					content that accomplish	content that accomplish
					given goals, including	given goals, including

					collecting, analysing, evaluating and presenting data	collecting, analysing, evaluating and presenting data and information
Use of information and communication technology	use technology purposefully to create, store, and retrieve digital content use technology safely and respectfully, keeping personal information private;	use technology purposefully to create, organise, store, manipulate and retrieve digital content 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.	use search technologies effectively use technology safely, respectfully and responsibly	use search technologies effectively, appreciate how results are selected and ranked use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour	use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.	use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content use technology safely, respectfully and responsibly; recognise acceptable/unacceptable behaviour; identify a range of ways to report concerns about content and contact.