

Computing

		Year 1		Year 2		Year 3	
independently select, use and combine a variety of software to design and create content for a given audience, collecting, analysing, evaluating and presenting data and information design and create a range of programs, systems and content for a given audience.	Computers and using computers	Use other input devices like cameras and sensors with support select and use a variety of software on a range of digital devices	use technology responsibly and understand that communication online may be seen by others	E-safety	• recognise common uses of information technology in the home and school environment use technology to purposefully create digital content	Computers and using computers	• recognise common uses of information technology in the home and school environment use technology to purposefully create digital content
independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information		understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies	predict the behaviour of simple programs understand what algorithms are and how they are implemented on digital devices	Coding	understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies	E-safety	predict the behaviour of simple programs understand what algorithms are and how they are implemented on digital devices
understand the need to only select age appropriate content	e-safety	decompose programs into smaller parts	recognise common uses of IT beyond school	Computers and using computers	recognise common uses of IT beyond school	Computers and using computers	recognise common uses of IT beyond school
use technology respectfully and responsibly		use logical reasoning to detect and correct errors in algorithms and programs	use technology to purposefully create, organise, store, manipulate and retrieve digital content	Coding	use logical reasoning to predict the behaviour of simple programs	E-safety	use logical reasoning to predict the behaviour of simple programs
identify a range of ways to report concerns about content and contact in and out of school		select, use and combine a variety of software, systems and content that accomplish given goal	use technology to purposefully create digital content comparing the benefits of different programs		use logical reasoning to predict the behaviour of simple programs	E-safety	use logical reasoning to predict the behaviour of simple programs
include use of sequences, selection and repetition with the hardware used to explore real world systems		understand what services are and how they provide services to a network	use technology safely and keep personal information private	Networks	create simple programs	Computers and Using computers	create simple programs
solve problems by decomposing them into smaller parts	Coding	understand how results are selected and ranked by search engines	Net searching		debug simple programs by predicting the simple actions in the code	Computers and Using computers	debug simple programs by predicting the simple actions in the code
create programs which use variables sequence, selection and repetition programs		independently select and use appropriate software for a task	E-safety		understand that programs execute by following precise and unambiguous instructions.	Computers and using computers	understand that programs execute by following precise and unambiguous instructions.
use logical reasoning to explain how increasingly complex algorithms work and to detect and correct errors in algorithms and programs efficiently		independently select, use and combine a variety of software to design and create content for a given audience			recognise familiar forms of input and output devices and how they are used	Computers and using computers	recognise familiar forms of input and output devices and how they are used
begin to use internet searches within his/her own creations to share and transfer data to a third party	Networks	understand the need to only select age appropriate content			make efficient use of familiar forms of input and output devices	Computers and Using computers	make efficient use of familiar forms of input and output devices
use filters in search technologies effectively and is discerning when evaluating digital content	Net searching	use technology respectfully and responsibly			with support select and use a variety of software to accomplish goals	E-safety	with support select and use a variety of software to accomplish goals
Year 6		identify a range of ways to report concerns about content and contact in and out of school			use technology safely and respectfully, keeping personal information private	Computers and Using computers	use technology safely and respectfully, keeping personal information private
		design, input and test an increasingly complex set of instructions to a program or device			recognise acceptable and unacceptable behaviour	E-safety	recognise acceptable and unacceptable behaviour
		design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems			design, write and debug programs that control or simulate virtual events	Coding	design, write and debug programs that control or simulate virtual events
		design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems			use logical reasoning to explain how some algorithms work to ensure a program's efficiency	Coding	use logical reasoning to explain how some algorithms work to ensure a program's efficiency
		write and test simple programs with opportunities for selection, where a particular result will happen based on actions or situations controlled by the user			understand that computer networks enable the sharing of data and information	Networks	understand that computer networks enable the sharing of data and information
		use filters in search technologies effectively and appreciate how results are selected and ranked			understand that the internet is a large network of computers and that information can be shared between computers.	Networks	understand that the internet is a large network of computers and that information can be shared between computers.
		use simple search technologies			use simple search technologies	Net Searching	use simple search technologies
		recognise that some sources are more reliable than others.			recognise that some sources are more reliable than others.	Net Searching	recognise that some sources are more reliable than others.