

COMPUTING

Knowledge and Skills Progression

Year Group	FS	1	2	3	4	5	6
Information Technology	-Turn computer on/off -Log off -Close open programmes -Single click return to open documents & programmes Keyboard & mouse skills: - lowercase letters & numbers - capslock to create capitals -awareness of shift to create capitals -backspace to delete text -point & left click	-Recognise common uses of information technology in the home & the classroom -Use technology purposefully to create digital content. Including taking pictures, using graphics packages and word processing. -log off -log on with generic user name & password -take photos Keyboard& mouse skills: Use... -upper & lowercase letters - . ? - spacebar, delete & backspace -shift -return key -arrow keys -use scroll & tracker pad -select font, font size, text colour -drag & drop images	-Recognise common uses of information technology beyond school -Use technology purposefully to organise, store and retrieve digital content. Including taking pictures, using graphics packages and word processing. -Use technology purposefully to create and manipulate digital content comparing the benefits of different content -log on with personal user name & password -open new tabs/new window when searching Keyboard& mouse skills: Use... -use punctuation appropriate to age -use right click -highlight text to alter font, font size & text colour -copy, paste , cut, highlight & drag to move, resize graphics -bullet points	-Recognise familiar forms of input and output devices and how they are used -Make efficient use of familiar forms of input and output devices -Understand that computer networks enable the sharing of data and information -Understand that the internet is a large network of computers and that information can be shared between computers -With support select and use a variety of software to accomplish goals -tab between open window & documents effectively Keyboard& mouse skills: Use... -begin to navigate word processing & graphics tool bars	-Use other input devices such as cameras or sensors -Understand what servers are and how they provide services to a network -With support select and use a variety of software on a range of digital devices -With support select, use and combine a variety of software on a range of digital devices to accomplish given goals Keyboard& mouse skills: Use... -navigate word processing & graphics tool bar to enhance presentations & content	-Begin to use internet services to share and transfer data to a third party -Independently select and use appropriate software for a task -Independently select, use and combine a variety of software to design and create content for a given audience	-Understand how computer networks enable computers to communicate and collaborate -Begin to use internet services within his/her own creations to share and transfer data to a third party -Independently select, use and combine a variety of software to design and create content for a given audience, including collecting, analysing, evaluating and presenting data and information -Design and create a range of programs, systems and content for a given audience -Independently select, use and combine a variety of software to collect, analyse, evaluate and present data and information
Digital Literacy		-Understand where to go for help and support when he/she has	-Use technology safely and keep personal information private.	-Use technology safely and respectfully, keeping	-Use technology responsibly and understand that	-Understand the need to only select age appropriate content	-Use technology respectfully and responsibly

		concerns about content or contact on the internet or other online technologies. -perform a simple search under adult supervision	-Begin to be aware of own responsibility when accessing age appropriate material -use simple search engines under supervision	personal information private -Use technology safely and recognise acceptable and unacceptable behaviour -Use simple search technologies -Use simple search technologies and recognise that some sources are more reliable than others	communication online may be seen by others -Understand where to go for help and support when he/she has concerns about content or contact on the internet or other online technologies -Understand how results are selected and ranked by search engines	-Use filters in search technologies effectively -Use filters in search technologies effectively and appreciates how results are selected and ranked	-Identify a range of ways to report concerns about content and contact in and out of school -Be discerning when evaluating digital content -Use filters in search technologies effectively and is discerning when evaluating digital content
Computer Science	-explore using Beebots & remote control devises -use arrow keys to navigate simple games	-Predict the behaviour of simple programs -Understand what algorithms are. -Understand how algorithms are implemented as programs on digital devices -Create simple programs	-Use logical reasoning to predict the behaviour of simple programs. -Create and debug simple programs. -Debug simple programs by using logical reasoning to predict the actions instructed by the code. -Understand that programs execute by following precise and unambiguous instructions.	-Design, write and debug programs that control or simulate virtual events. -Use logical reasoning to explain how some simple algorithms work	-Decompose programs into smaller parts -Use logical reasoning to detect and correct errors in algorithms and programs -Select, use and combine a variety of software, systems and content that accomplish given goals	-Design, input and test an increasingly complex set of instructions to a program or device -Design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems -Design, write and test simple programs that follow a sequence of instructions or allow a set of instructions to be repeated -Design write and test simple programs with opportunities for selection, where a particular result will happen based on actions or situations controlled by the user -Use logical reasoning to explain how increasingly complex algorithms work to ensure a program's efficiency	-Include use of sequences, selection and repetition with the hardware used to explore real world systems -Solves problems by decomposing them into smaller parts -Create programs which use variables -Use variables, sequence, selection, and repetition in programs -Use logical reasoning to explain how increasingly complex algorithms work and to detect and correct errors in algorithms and programs efficiently