COMPUTING	SKILLS	PROGRESSION
-----------	--------	-------------

	YEAR 1/2	YEAR 314	YEAR 5/6
COMPUTER SCIENCE: PROGRAMMING AND EXPLORING	Understand what algorithms are (a set of rules for performing a task)	Write programs that accomplish specific goals	Solve problems by splitting them into smaller parts L5
	Create simple programs	Debug simple programs	Design and create programs  Debug programs
	(a set of rules that can be understood by a computer)	Use logical reasoning to predict the behaviour of simple programs L2	Use <b>selection</b> in programs (instructions like 'ifthenotherwise')
	Understand that algorithms are implemented as programs on digital devices (Programmers turn algorithm into code)  Understand that programs work by	Use sequence in programs (step by step nature of programs)  Use repetition in programs (a 'repeat until' loop where the computer runs a bit of the program a certain number of	Work with variables (variables are used to keep track of things that can change when a program is running e.g. keeping track of a players score in a quiz)
	following precise instructions		Use logical reasoning to detect and correct errors in programs and algorithms
	Debug simple programs (Find the problem and fix it!) Use logical reasoning to predict the behaviour of simple programs (Explain what will happen and why)	times) ) Work with different forms of input (anything that accepts a command e.g. microwave control, mobile phone, car stereo etc.)	Understand computer <b>networks</b> including the internet (computers connected together)  Appreciate how search results are ranked
		Work with different forms of output (What the 'computer' produces – remember, a computer is anything that accepts input, processes it and produces an output)	The state of the s
		Appreciate how search results are selected	

## CREATIVE TECHNOLOGY: COMMUNICATION COLLABORATION

Use technology purposefully to **create** digital content

(e.g. word-processing, creating pictures, working with digital photos and video, animations, writing programs etc.)

Use technology purposefully to **organise** digital content

(e.g. organising files in a folder or directory, tagging photos and online posts)

Use technology purposefully to manipulate digital content

(Using programs like word-processors, presentation software, image/audio/video editing packages...)

Use technology purposefully to **store** digital content

(Know how and where to save a file)

Use technology purposefully to **retrieve** digital content

(Finding what you want from wherever you saved it!)

Use search technologies effectively

(Use keywords & phrases, skim and scan results)

Use a variety of software to accomplish goals

Collect information and data (e.g. text, images, audio or video)

Design and create content

Present information

Select and combine a range of software to accomplish goals

Select, use and combine software on a range of **digital devices** including internet services (both fixed and mobile technologies)

Analyse information

**Evaluate information** 

Present information and data

Design and create systems

(A system is something that has separate interacting parts that form a whole)

		Use technology safely	Use technology responsibly	Recognise acceptable/unacceptable behaviour
LITERAGY: AND ORGANISING IDEAS	Keep personal information private	(How their actions impact others & terms and conditions for web services e.g. 13+ restriction on Facebook etc.)	(e.g. how their actions impact others & legal and ethical responsibilities)	
	Recognise common uses of information technology beyond school	Identify a range of ways to report concerns about content	Identify a range of ways to report concerns about content (CEO, Police, Childline)	
	N	Use technology respectfully	(CEO, Police, Childline)	
	AGY: ORGA	Know where to go for help and support when they have concerns about content	Recognise acceptable/unacceptable behaviour	Understand the opportunities computer networks offer for collaboration
DIGITAL LITER. SEARCH AND		(e.g. parent or teacher)	Recognise the opportunities that computer networks offer for communication L4	Evaluate digital content effectively
	ITAL .RCH	http://www.thinkuknow.co.uk/5_7/	http://www.thinkuknow.co.uk/5_7/	http://www.thinkuknow.co.uk/8_10/ http://www.saferinternet.org.uk
	DIG SEA	http://www.saferinternet.org.uk/	http://www.saferinternet.org.uk/	ittp://www.saierinternet.org.uk
	RE			
	>			
	<u> </u>			
	-SAFETY,			
	السا			