




Key Skills with EYFS

Computer Science

Information Technology

Digital Literacy

	Computer Science	Information Technology	Digital Literacy
Key Skills with EYFS	Gives instructions to control on screen avatars and physical hardware. (Rec.1a)	They select and use technology for particular purposes, interacting with age-appropriate software. (Rec.2a)	Uses and understands technical language (Rec.3a)
	Uses peripherals in a variety of ways to follow onscreen and audio instructions. (Rec.1b).	With support, uses ICT to store and retrieve information (Rec.2b).	Uses internet services and software to fulfil given goals (including staying on a selected site). (Rec.3b)
		With support, uses ICT to present information (Rec.2c).	Children recognise that a range of technology is used in places such as homes and schools (Rec.3c)
YEAR 1	Understands what algorithms are. (IT1.1a)	Uses technology purposefully to create digital content. (IT1.2a)	Uses technology safely and sensibly. (IT1.3a)
	Creates simple programs by giving instructions. (IT1.1b)	Uses technology purposefully to store digital content. (IT1.2b)	Keeps personal information private. (IT1.3b)
	Use simple on-screen games and simulations. (IT1.1c)	Uses technology to present simple data. (IT1.2c)	Recognises advertising and learns to ignore it. (IT1.3c)
			Uses ICT to communicate as part of a group. (IT1.3d)
YEAR 2	Understands that algorithms are implemented as programs on digital devices. (IT2.1a)	Uses a combination of technology purposefully to create digital content. (IT2.2a)	Uses technology respectfully. (IT2.3a)
	Understands that programs execute by following precise and unambiguous instructions. (IT2.1b)	Uses technology purposefully to manipulate digital content. (IT2.2b)	Identifies where to go for help and support when they have concerns about content or contact on the internet or other online technologies. (IT2.3b)

	Tests and changes programs. (IT2.1c)	Uses technology purposefully to organise and sort digital content. (IT2.2c)	Recognises cyber-bullying and what to do if it happens. (IT2.3d)
	Uses logical reasoning to predict the behaviour of simple programs. (IT2.1d)	Uses technology (and internet services) to retrieve digital content. (IT2.2d)	Uses ICT to communicate. (IT2.3e)
			Recognises some common uses of information technology beyond school such as simulations. (IT2.3f)
			Is beginning to understand the importance of using technology safely and sensibly. (IT2.3g)
YEAR 3	Writes programs that accomplish specific goals. (IT3.1a)	Uses search technologies effectively. (IT3.2a)	Uses technology responsibly. (IT3.3a)
	Debugs simple programs. (IT3.1b)	Uses a variety of software to accomplish given goals. (IT3.2b)	Identifies a range of ways to report concerns. (IT3.3b)
	Explores the effect of variables on simulations. (IT3.1c)	Collects and sorts data in different ways to answer questions. (IT3.2c)	Recognises the importance of staying safe and methods achieve this. (IT3.3c)
	Understands the importance and advantages of using simulations. (IT3.1d)	Creates and improves digital content. (IT3.2d)	Recognises cyber-bullying and the consequences of taking part. (IT3.3d)
	Controls or simulates physical systems. (IT3.1e)		Recognises some advantages of using ICT. (IT3.3e)
			Uses ICT to communicate clearly with another person. (IT3.3f)
YEAR 4	Designs and creates programs to accomplish a variety of goals. (IT4.1a)	Uses and combines a variety of software to accomplish given goals and appeal to a familiar audience. (IT4.2a)	Uses ICT to communicate with multiple recipients. (IT4.3a)

	Debugs programs that accomplish a variety of goals. (IT4.1b)	Selects, uses and combines internet services. (IT4.2b)	Identifies a range of ways to report concerns about content. (IT4.3b)
	Uses repetition in programs. (IT4.1c)	Uses technology purposefully to collect, organise, sort, search and present digital content and data. (IT4.2c)	Recognises acceptable/unacceptable behaviour and share tips and advice in order to stay safe. (IT4.3c)
	Uses logical reasoning to detect and correct errors in programs. (IT4.1d)	Presents digital content in a variety of ways. (IT4.2d)	Recognises some advantages of using ICT both inside and outside of school. (IT4.3d)
	Understands how computer networks can provide multiple services, such as the World Wide Web. (IT4.1e)		Recognises that some online sources more trustworthy & accurate than others. (IT4.3e)
	Uses sequencing within programs. (IT4.1f)		
	Works with various forms of output. (IT4.1g)		
YEAR 5 & YEAR 6			
	Designs and create programs that accomplish specific goals. (IT5-6.1a)	Selects, uses and combines a variety of software to accomplish given goals. (IT5-6.2a)	Understands the opportunities computer networks offer for communication and collaboration (IT5-6.3a)
	Solves problems by decomposing them into smaller parts and using logical reasoning. (IT5-6.1b)	Designs and creates systems to achieve a specific goal. (IT5-6.2b)	Is discerning in evaluating digital content. (IT5-6.3b)
	Works with variables. (IT5-6.1c)	Check systems for accuracy and plausibility. (IT5-6.2c)	Recognises a range of e-threats and can share advice on how to avoid and combat them. (IT5-6.3c)
	Uses logical reasoning to explain how some simple algorithms work. (IT5-6.1d)	Selects, uses and combines software on a range of digital devices. (IT5-6.2d)	Appreciates copyright and can take measures to ensure it isn't broken. (IT5-6.3d)

	Understands computer networks, including the internet. (IT5-6.1e)	Analyses and evaluates data. (IT5-6.2e)	Recognises the positives and negatives of ICT. (IT5-6.3e)
	Appreciates how search results are selected and ranked. (IT5-6.1f)	Selects, uses and combines internet services in order to answer questions and teach others. (IT5-6.2f)	
		Use search functions effectively to reduce the number of results returned (IT5-6.2g)	
Base & Thrive	<p>Pupils within the provisions follow the equals curriculum so the objectives based on the national curriculum are not appropriate. Further information can be found in the Curriculum Overview.</p> <p>Alternatively, pupils develop their skills and understanding as part of wider topics & content. iPads are also used within class and the ICT suite is available for pupils on a Monday and Tuesday morning. Furthermore, where appropriate, some children from Blue & Yellow Base provision and Thrive access ICT with their peers and are provided with supportive materials to access projects.</p>		

Substantive Knowledge	Disciplinary Knowledge
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