	EYFS	Year 1	Year 2	End of KS expectations	Year 3	Year 4	Year 5	Year 6	End of KS expectations
Programming		I understand what algorithms are; implemented on an unplugged programme and how they are implemented as a program on digital devices I can create a series of instructions I can plan a journey for a programmable toy. I can create and debug simple programs I use logical reasoning to predict the behaviour of simple programs. I understand that that programs execute by following precise and unambiguous instructions.	I can test and amend a set of instructions. I can find errors and amend. (debug) I can write a simple program and test it. I can predict what the outcome of a simple program will be (logical reasoning). I understand that algorithms are used on digital devices. I understand that programs require precise instructions. I can use a range of instructions (e.g. direction, angles, turns).	Understand what algorithms are and how they are implemented. Understand and use precise and unambiguous instructions. Create, test and debug simple programs. Use logical reasoning to predict the behaviour of simple programmes	I can write programs that accomplish specific goals. I can design a sequence of instructions, including directional instructions. I can work with various forms of input. I can work with various forms of output.	I can experiment with variables to control models. I can give an on-screen robot specific instructions that takes them from A to B. I can make an accurate prediction and explain why I believe something will happen (linked to programming). I can de-bug a program. I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems. I can use sequence, selection, and repetition in programs; work with various forms of input and output.	I can design, write and debug programs that accomplish specific goals, including controlling or simulating physical systems; solve problems by decomposing them into smaller parts. I can design algorithms that use repetition & 2-way selection. I can use technology to control an external device. I can combine sequences of instructions and procedures to turn devices on and off.	I can design a solution by breaking a problem up. I recognise that different solutions can exist for the same problem. I can use selection and variables in programs. I can explore 'what if' questions by planning different scenarios for controlled devices. I can design, write & debug programs- using sequence, selection & repetition in programs working with variable & various forms of input/output I can use sequence, selection, and repetition in programs; work with variables and various forms of input and output.	Design, write and debug programs controlling or simulating physical systems. Solve problems by decomposing. Use sequence, selection, and repetition in programs; work with variables and various forms of input and output.

						I can solve problems by decomposing them into smaller parts.		I can design, write and debug programs that control or simulate physical systems; solve problems by decomposing them into smaller parts.	
Information Technology & E-Safety		I can use technology safely and respectfully, I can keep keeping personal information private I can identify where to go for help and support when they have concerns about content or contact on the internet or other online technologies.	I use technology respectfully. I can navigate the web to complete simple searches.	Use technology safely and respectfully; understanding where to go for help and support if concerned. Use technology for simple searches; to retrieve information.	I use technology respectfully and responsibly. I know different ways I can get help if I am concerned. I understand what computer networks do and how they provide multiple services.	I recognise acceptable and unacceptable behaviour using technology. I can use technology safely, respectfully and responsibly. Recognise un/acceptable behaviour & identify a range of ways to record & report contents.	I can use technologies safely & respectfully, responsibly so as to recognise un/acceptable behaviour & identify a range of ways to report concerns about contents & contact.	I can discuss the risks of online use of technology. I can identify how to minimise risks.	Identify a range of ways to reports concerns about unacceptable use of technology. Understand the use of the Internet/WWW for communication and collaboration.
Digital Literacy		I can recognise common use of I.T beyond school. I can use technology purposefully to create, organise, store, manipulate and retrieve digital content I can use a camera I can use a website	I can organise digital content. I can retrieve and manipulate digital content. I know how technology is used in school and outside of school.	Use technology to create, organise, store, manipulate and retrieve digital content (simple software).	I can collect information. I can design and create content. I can search for information on the web in different ways. I can present information. I can use a range of software for similar purposes.	I can create a range of programs, systems & contents to accomplish given goals that include: collecting, analysing, evaluating, & presenting data & information. I can collect and present data.	I can analyse information. I can evaluate information. I understand how search results are selected and ranked. I can select, use and combine a variety of software (including internet services) on a range of digital	I can use a range of technology for a specific project. I can select. Use and combine software on a range of digital devices.	Use search technologies effectively, appreciate how results are selected and ranked, and be discerning in evaluating digital content. Select, use and combine a variety of software (including internet services) on a range of digital devices to design

		I can record sound and play back. I can create digital content I can store digital content I can retrieve digital content			I can manipulate and improve digital images.	I can use search technologies effectively. I can use a variety of software (including internet services) to create content; including presenting information.	devices to design and create a range of programs, systems and content that accomplish given goals.		and create a range of programs, systems and content including; collecting, analysing, evaluating and presenting data and information. Collect, analyse, present and evaluate data & information.