Childwall CE Primary School - Computing Progression Ladder

Skills of a Year 1 Computer User:	Skills of a Year 2 Computer User:	Skills of a Year 3 Computer User:
Algorithms and programming	Algorithms and programming	Algorithms and programming
•I can create a series of instructions.	•I can use a range of instructions (e.g. direction, angles, turns).	•I can design a sequence of instructions, including directional instructions.
•I can plan a journey for a programmable toy.	•I can test and amend a set of instructions.	•I can write programs that accomplish specific goals.
	•I can find errors and amend. (debug)	•I can work with various forms of input.
Information technology	•I can write a simple program and test it.	•I can work with various forms of output.
•I can create digital content.	•I can predict what the outcome of a simple program will be (logical reasoning).	
•I can store digital content.	•I understand that algorithms are used on digital devices.	Information technology
•I can retrieve digital content.	•I understand that programs require precise instructions.	•I can use a range of software for similar purposes.
•I can use a web site.		•I can collect information.
•I can use a camera.		•I can design and create content.
•I can record sound and play back.	Information technology	•I can present information.
	•I can organise digital content.	•I can search for information on the web in different ways.
Digital literacy	•I can retrieve and manipulate digital content.	•I can manipulate and improve digital images.
•I can use technology safely.	•I can navigate the web to complete simple searches.	
•I can keep personal information private.		Digital literacy
	Digital literacy	•I use technology respectfully and responsibly.
	•I use technology respectfully.	•I know different ways I can get help if I am concerned.
	•I know where to go for help if I am concerned.	•I understand what computer networks do and how they provide multiple services.
	•I know how technology is used in school and outside of school.	•I can discern where it is best to use technology and where it adds little or no value.

Skills of a Year 4 Computer User:	Skills of a Year 5 Computer User:	Skills of a Year Computer User:
<u>Algorithms and programming</u> •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. <u>Information technology</u> •I can select and use software to accomplish given goals. •I can collect and present data. •I can produce and upload a pod cast. <u>Digital literacy</u> •I recognise acceptable and unacceptable behaviour using technology.	<u>Algorithms and programming</u> •I can combine sequences of instructions and procedures to turn devices on and off. •I can use technology to control an external device. •I can design algorithms that use repetition & 2-way selection. <u>Information technology</u> •I can analyse information. •I can evaluate information. •I understand how search results are selected and ranked. •I can edit a film. <u>Digital literacy</u> •I understand that you have to make choices when using technology and that not everything is true and/or safe.	<u>Algorithms and programming</u> •I can design a solution by breaking a problem up. •I recognise that different solutions can exist for the same problem. •I can use logical reasoning to detect errors in algorithms. •I can use selection in programs. •I can work with variables. •I can explain how an algorithm works. •I can explore 'what if' questions by planning different scenarios for controlled devices. <u>Information technology</u> •I can select, use and combine software on a range of digital devices. •I can use a range of technology for a specific project. <u>Digital literacy</u> •I can discuss the risks of online use of technology. •I can identify how to minimise risks.