

Subject Specific-Skills: Age-related expectations in Computing

Year	Algorithms and Programming	Information Technology	Digital Literacy
1	I can: <ul style="list-style-type: none"> • Create a series of instructions • Plan a journey for a programmable toy 	I can: <ul style="list-style-type: none"> • Create, store and retrieve digital content • Use a website and a camera • Record sound and play back. 	I can: <ul style="list-style-type: none"> • Use technology safely • Keep personal information private
2	I can: <ul style="list-style-type: none"> • Use a range of instructions (directions, angle, turns) • Test and change a set of instructions • Find errors and amend (debug) • Write a simple program and test it. • Predict † the outcome of a simple program. • Understand that algorithms are used on digital devices. • Understand that programs require precise instructions. 	I can: <ul style="list-style-type: none"> • Organise digital content • Retrieve and manipulate digital content • Navigate the web to complete simple searches. 	I can: <ul style="list-style-type: none"> • Use technology respectfully. • Know where to go for help if I am concerned. • How technology is used inside school and outside school.
3	I can: <ul style="list-style-type: none"> • Design a sequence of instructions, including directional instructions. • Write programs that achieve specific goals. • Work with various forms of input and output. 	I can: <ul style="list-style-type: none"> • Use a range of software for similar purposes. • Collect information; present information • Design and create content • Search for information on the web in different ways. • Manipulate and improve digital images. 	I can: <ul style="list-style-type: none"> • Use technology respectfully and responsibly. • Know different ways I can get help if I am concerned. • Understand what computer networks do and how they provide services. • Decide when its best to use, or not use, technology.
4	I can: <ul style="list-style-type: none"> • Experiment with variables to control models. • Give an on-screen robot specific instructions to take them from A to B. • Make an accurate prediction and explain I believe something will happen (linked to programming). • De-bug a program. 	I can: <ul style="list-style-type: none"> • Select and use software to accomplish give goals. • Collect and present data. • Produce and upload a pod cast. 	I can: <ul style="list-style-type: none"> • Recognise acceptable and unacceptable behaviour using technology.
5	I can: <ul style="list-style-type: none"> • Combine sequences of instructions and procedures to turn devices on and off.] • Use technology to control an external device. • Design algorithms that use repetition and 2-way selection. 	I can: <ul style="list-style-type: none"> • Analyse and evaluate information • Understand how search results are selected and ranked. • Edit a film 	I can: <ul style="list-style-type: none"> • Understand that you have to make choices when using technology and that not everything is true/ safe.
6	I can: <ul style="list-style-type: none"> • Design a solution by breaking a problem up. • Recognise that there are different solutions to the same problem. • Use logical reasoning to detect errors in algorithms. • Use selection in programs. • Work with variables • Explain how an algorithm works. • Explore; what if' questions by planning scenarios for controlled devices. 	I can: <ul style="list-style-type: none"> • Select, use and combine software on a range of digital devices. • Use a range of technology for a specific project. 	I can: <ul style="list-style-type: none"> • Discuss the risks of online use of technology • Identify how to minimise risks.