Year 7 Progress Ladder – Computer Science

Pathway A	Pathway B	Pathway C	Pathway D	COMP 1 - Theory	COMP 2 – Algorithms and Programming	COMP 3 – Digital Literacy
1. Exceeding expected progress	1.Exceeding expected progress	1.Exceeding expected progress	1.Exceeding expected progress	➢ Describe what a multi core processor is and the affect it can have. ➢ Describe what each of the different Computer Components do.	➢ Create complex algorithms with multiple loops.	➢ Edit an image in Photoshop using multiple layers and several complex techniques.
				➢ Understand what clock speed is and how it affects the computers performance. ➢ Identify different user interfaces and evaluate the advantages and disadvantages.	➢ Create complex algorithms with multiple selection statements.	➢ Apply complex formatting and different alignments to word processed document.
2. Making expected progress				➢ Understand how the FDE cycle works. ➢ Analyse each stage of the SDLC cycle.	➢ Implement variables to store and change values within code. ➢ Implement selection based on sensor within code.	➢ Edit an image in Photoshop using various different tools. ➢ Create a variety of documents professionally.
3.Below expected progress	2. Making expected progress			➢ Understand what the OS is and its basic functionality. ➢ Identify the difference between ROM and RAM. ➢ Identify different Computer Components.	➢ Test project for robustness. ➢ Create clear next steps within EBI for further iterations.	➢ Edit an image in Photoshop. ➢ Identify which jobs can be gained and using which skills with Computer Science.
4.Cause for concern	3.Below expected progress	2. Making expected progress		➢ Create an image out of more than 1-bit binary data. ➢ Understand what the OS is and its basic functionality. ➢ Demonstrate how to convert denary to binary and binary to denary. ➢ Create an image out of more than 1-bit binary.	➢ Implement a loop correctly within code. ➢ Understand what a variable is. ➢ Implement a variable within code. ➢ Design simple algorithms using loops, and selection i.e. if statements.	➢ Create 3D models. ➢ Identify different file extensions and which software package they will open in. ➢ Change the formatting of text in word document.
	4.Cause for concern	3.Below expected progress	2. Making expected progress	➢ Understand why we need binary. ➢ Understand what ASCII is. ➢ Demonstrate how to convert from denary/ binary to ASCII.	➢ Implement a selection statement within code. ➢ Decompose a task. ➢ Create own success criteria. ➢ Create basic visual designs. ➢ Test for basic functionality.	➢ Knowledge and application of a variety of keyboard shortcuts. ➢ Create a basic word-processed letter, presentation and leaflet.
		4.Cause for concern	3.Below expected progress	➢ Identify both input and output devices. ➢ Create an image out of 1-bit binary.	➢ Create and read basic flowcharts. ➢ Evaluate a project. ➢ Decompose a task.	➢ Find and use content taken from the World Wide Web. ➢ Can browse the World Wide Web safely.

			4.Cause for concern	➢ Understand what a computer is and why they are needed.	➢ Understand the need for algorithms. ➢ Create a basic algorithm.	➢ Use the correct online and offline software. ➢ Have clear and correct file/ folder structure for each subject. ➢ Understand how to be safe online.