Computer Science Knowledge Organiser – Year 1

Y1	Prior Knowledge	Programming - **Algorithms**	Computational Thinking – **Algorithm**
Key knowledge and skills	• Use simple software and programmable devices to make something happen. *For example:* *Programming a Beebot to move to a specific place.* *Clicking/selecting a button on screen to make an object on screen move.* • Using language of first, next etc to explain how to use technology.	• I know how to create a simple program on a digital device e.g. Bee Bot or tablet. • I know how to use sequence in programs. • I know how to locate and fix bugs in my program	• I understand what algorithms are. • I know how to write simple algorithms. • I understand the sequence of algorithms is important. • I know how to debug simple algorithms.

Computational Thinking		Key Vocabulary		Apps
 Algorithm	An algorithm is a sequence of instructions or a set of rules to get something done.	Algortithm	A precise set of ordered steps that can be followed by a human or a computer to achieve a task	
		Program	A set of ordered commands that can be run by a computer to complete a task	
 Debugging	Debugging is about finding out what is wrong in an algorithm or program and fixing it.	Debug	The process of finding and correcting errors in a program	
		Code	The commands that a computer can run	