







Computer Science Knowledge Organiser – Year 2

Y2	Prior Knowledge	Programming - Algorithms	Computational Thinking
Key knowledge and skills	In Year 1 you learnt: <ul style="list-style-type: none"> What an algorithm is. How to create a simple algorithm on a device or using a Beebot. Sequence is important in your algorithm. How to find and fix simple bugs in algorithms. 	<ul style="list-style-type: none"> I understand programs follow precise instructions I know how to create programs using digital devices E.g. Scratch Jnr on a tablet I know how to debug programs of increasing complexity I know how to use logical reasoning to predict the outcome of simple programs 	<ul style="list-style-type: none"> I know how to write algorithms for everyday tasks. I know how to use logical reasoning to predict the outcome of algorithms. I understand decomposition is breaking objects/processes down. I know how to debug algorithms.

Key Vocabulary				Apps
 Algorithm	An algorithm is a sequence of instructions or a set of rules to get something done.	Programming	Designing and writing instructions for a computer in a language it understands.	 
 Logic	Logical reasoning helps us explain why something happens.	Logical reasoning	Being able to explain why something happens or predict using facts and knowledge that we know to be true.	
 Decomposition	Decomposition is the process of breaking down a task into smaller, more-manageable parts. With decomposition, a task can be tackled by several people working together as a team.	Decompose/ decomposition	To break down a task into smaller, more achievable steps	
 Debugging	Debugging is about finding out what is wrong in an algorithm or program and fixing it.	Precise	Being exact or accurate.	