

## **Computing Knowledge Organiser We Are Programmers**



Key Knowledge  Learn these key facts		Key Vocabulary Understand these key words	
Algorithm	Story boards	Word	Definition
	Scene: Start Scene: Middle Scene: End	Algorithm	A set of instructions we give to a computer program using code.
when right arrow - key pressed	E vaet deligner 3	Computer animation	An image or set of images that move inside a computer program.
If on edge, bounce	When start button is pressed, say  When the right arrow is pressed,  "Hello year 3"  When the right arrow is pressed, move forward 10 spaces.  "Goodbye year 3"	Story boards	A way of planning an algorithm step by step. We draw what we want to happen and write in words what we want the algorithm
An algorithm is a set of instructions that you can give to a computer. You can do this by using code.	A story board can help us to plan a computer program step by step. We can write what we want it to do and then turn this into an algorithm using code.		to do. We then make code based on our sentences and drawings.
Computer Animation	Logical reasoning	Logical	Thinking about how algorithms work by looking at each step and what
	This part works - the sprite is moving forward.  This part does not work. We need to debug (fix) this part of the code.  Move forward 5 steps  Say hello'	reasoning	happens next. We can use this to plan and debug algorithms by finding the step that isn't working.
		Debugging	Looking for problems in algorithms and changing the code to fix it. Logical reasoning can help us to do this.
A computer animation is an image or group of images than can be made to move using a computer program.	We use logical reasoning to explain how some simple algorithms work and to detect and correct errors in algorithms and programs. We think carefully about what parts of the code are working and use this to find the part of the code that needs to be fixed.	code	Languages that computers understand. We write algorithms using code so the computer understands what we want it to do.