River Bank Primary Knowledg	ge Year 6	Autumn Term 2	We are programmers - Crumbles
What we will learn		E-safety	
Selection in Physical Computing Programming is when we make and input a set of instructions for computers to follow.Microcontrollers are devices that can be programmed to control output devices that are connected to them.We use algorithms which we can plan, model, trial and debug, in order to create accurate command sequences, involving multiple output devices (e.g. LEDs and motors).		We teach our children	to be SMART online Don't Don't Den't Deting someone you have only been in touch th online can be sways check with adult you trust. Ways Check with adult you trust. Ways Check with Ways Check with Ways Check with Ways Check with Ways Ch
Microcontrollers,	LEDs and Motors		CMAFT type based on resources from www.thinkuncw.co.uk
can be programmed to control devices that are connected to it.		Sequencing and Algorithms	
Crumble controller, which can be used to control many things, e.g. LEDs and motors.			
LEDs:. One type of LED light, controlled by a Crumble controller, is called a Sparkle. Motors: -Motors are another output device. A motor can start, stop, spin forwards, spin backwards,	Creating Circuits: The USB port connects the microcontroller to a computer.	We design algorithms of instructions for performing a task) to h program the sequence we require to achieve o desired outcomes. Programming is the pr	(sets help us that our $\frac{1. Forward 100}{2. Turn}$ Stort $\frac{1. Forward 100}{5. Forward 100}$ Stort $\frac{1. Forward 200}{5. Forward 100}$ FD 100 FD 200 LT 90 FD 100 LT 90 FD 100 FD 1
stop, spin forwards, spin backwards, and go at different speeds.		Programming is the pr computer (using your o	ocess of keying in the code recognised by the algorithm).