	St White's Primary School – SUBJECT						
	UKS2			Topic: Electrical systems		Summer	
What should I already know?				Technical vocabulary			
<ul> <li>How to use computer control software (Crumble).</li> <li>How to write and modify a program to make a light turn on or flash on and off.</li> <li>The essential characteristics of a series circuit and experience of creating circuits.</li> </ul>				Design Technologists are INVENTORS! Design Technology allows us the chance to identify problems and	Program	a sequence of instructions that can be used to control electrical components.	
					Microcontroller	a device that can be programmed to control how an electrical product operates.	
Products that use computer control		6	-1	plan, design, make and evaluate solutions.	Light emitting diode (LED)	an output device that glows when electricity is passed through it.	
Some products respond the environment using		Crumble controllers A crumble controller follows a		System	a set of related parts or components that together achieve a desired outcome.		
control program. For example, garden lights turn on when the computer control programs senses that it has gotten dark.		program. A	program. A program is simply a list of instructions that the Crumble will follow. The Crumble will 'run' a single line (i.e. a block) of a program, one at		Output devices	components that pro bulbs, motors and bu	oduce an outcome e.g. uzzers.
		line (i.e. a b			Input devices	components that are used to control an electrical circuit e.g. switches.	
			a time, starting from the top. You can program a crumble by using a USB to connect I to a computer.		Process	how a computer program controls one or more output devices.	
physical property and records, indicates, or otherwise responds to it. <i>e.g. a motion sensor.</i> Switch - a device for making and breaking the connection in an oloctric circuit		uts and output out devices put rmation into th omputer (e.g. crophones and keyboards). out devices allo	t devices put hation into the nputer (e.g. ophones and eyboards). t devices allow ation to be sent the computer speakers and		Push switch a circuit as long as the switch is pressed. pushed through the centre of each side of d then stripped back wires are connected stener to complete the circuit. Toggle switch al for using with a powered vehicle so you to hold the switch on all the time. The made in a piece of card, the length of a teners are put through both holes one of attaches the paper clip to switch.		