Year 5/6: More complex switches and circuits

rear 5/6: More complex switches and circuits			
Subjec	t Specific Vocabulary	Prior Learning Y3/4	Sticky Knowledge
open switch	when a switch is positioned such that electricity cannot flow through it.	Understanding of the essential characteristics of a series circuit and experience of creating a battery powered, functional, electrical product. Initial experience of using computer control software and an interface box or a standalone box, e.g. writing and modifying a program to make a light flash on and off.	Push to break switch switch Battery Buzzer Buzzer
closed switch	when a switch is positioned such that electricity can flow through it.	Future Learning KS3	 Slide switch Test a system to demonstrate its
normally open	the term used to describe when a switch is in the off position, i.e. the switch is open and no electricity can flow when the button on not pressed.	Understand how more advanced electrical and electronic systems can be powered and used in their products. Select from and use specialist tools, techniques, processes, including computer aided design.	effectiveness. • Research an inventor linked to the topic e.g. Edison • Practise making secure electrical connections.
normally closed	the term used to describe when a switch is in the on position i.e. the switch is closed and electricity can flow when the button is not pressed	Investigate new and emerging technologies. Electrical Game	Create and modify a computer control program to enable an electrical product to work Example control program
input devices	components that are used to control an electrical circuit e.g. switches or sensors.	Toleland	automatically in response to changes in the environment. • Drawings that indicate
output devices	components that produce an outcome e.g. bulbs and buzzers.	An electric current an make a current small particles	the design decisions made, including the location of the electrical components and
computer control input	when a switch, such as a micro switch, sends a signal to a computer control box to activate a sequence of events such as a buzzer or light being used to attract attention or alert people.	A part of a other that has a regardise charge electrical current electrical current when you make it is a companion of the co	how they work as a system with an input, process and output. • Apply there understanding Delay 8
modelling	to realise and manipulate ideas in a tangible form.	dectron	of computing to program, monitor and control their products