

DESIGN ENGINEERING PATHWAYS

YEAR 7 DOOR BUZZER LP

<u>DECLARATIVE KNOWLEDGE</u> <u>I know</u>			<u>PROCEDURAL KNOWLEDGE</u> <u>I can do</u>		
K1	That transistor can act as a switch		C1	Add flying leads to an LED and PTM switch	
K2	The three legs of a transistor are: Emitter Base Collector		C2	With help and support use a line bender and jig to make a curved plastic housing section	
K3	There are two types of plastics: Thermosetting polymer Thermoplastics		C3	With help and support use the following tools: <ul style="list-style-type: none"> • Soldering iron • Solder pump • Side cutters • pliers • screwdriver • countersink tool 	
K4	I can name examples of both types of plastic		C4	Build a transistor circuit using Circuit Wizard	
K5	I know that chemical structure of the plastic determines its characteristics with heat		C5	Build a PCB using circuit wizard	
			C6	With help and support, use progression over time, independently evaluate the quality of the product, related research and design tasks.	
			C7	With help and support, identify targets for improvement in future products.	