

DESIGN ENGINEERING PATHWAYS

YEAR 7 SOLDERING LICENCE LP

DECLARATIVE KNOWLEDGE I know			PROCEDURAL KNOWLEDGE I can do		
K1	Workshop safety rules		C1	Work safely in a workshop following the workshop safety rules.	
K2	The names of the following components <ul style="list-style-type: none"> • Resistors • Diodes • 8 Pin chip carrier • Single / Multicore wire 		C2	With help and support use the following tools: <ul style="list-style-type: none"> • a soldering iron • precision drill • wire strippers • side cutters • hot glue gun • solder pump • pliers • sand board • belt sander 	
K3	The system used for colour coding resistor		C3	With help and support use Circuit Wizard to: <ul style="list-style-type: none"> • Build circuits • Build PCBs • Use a virtual multi-meter to measure resistance 	
K4	The following Circuit Wizard tools: Drag and place, rotate left and right, play and stop, add track, add pad, normal – real world – artwork – current views and the circuit – PCB tabs		C4	With help and support, use a multi-meter to measure resistance and conductivity	
			C5	With help and support, use progression over time, independently evaluate the quality of the product, related research and design tasks.	
			C6	With help and support, identify targets for improvement in future products.	