



Subject Level Descriptor

Department	Design and Technology	Year Group	8	Assessment	Electronics - lighting
Assessment Summary	<ul style="list-style-type: none"> - Identify different components and explain their use in a circuit diagram - Demonstrate how to solder components together to form a working circuit - Cut and shape acrylic using correct tools and equipment 				

	Skills and creativity	Quality of final outcome	Independent learning
Level 1	A very basic design has been shaped (very little cutting, just some filing) Circuit does not work or requires full teacher assistance to complete work.	Some shaping methods attempted with teacher help. Quality is low and requires more attention to detail.	Frequent support required to ensure task was complete. Lacks confidence with in the workshop.
Level 2	A simple design cut with hand tools with more attention to detail needed. Circuit has been made with some assistance but attempted.	The design has been cut but overall shape needs improving to resemble final idea. Edges are a little bumpy with no attempt to smoothen. May not stand well.	Some guidance needed to support learning or reminding of rules. Can follow instructions most of the time.
Level 3	An accurately cut design with some aesthetical features needing improvement. Circuit has been made successfully.	Overall finish on acrylic edges is good - using a file or emery cloth to remove uneven sections – needs improving. Stands correctly	Works safely using tools and equipment correctly. Can follow instructions well and asks questions to check understanding.
Level 4	A complex design has been achieved with few errors. A variety of workshop tools used to complete design with precision. Circuit has been made successfully overcoming any problems	Design has been cut and shaped with precision using correct tools and equipment to remove majority of rough edges. Design looks well-made and stands correctly.	Works very well with some independence. Has confidence using tools and equipment.
Level 5	A complex and creative design has been achieved with additional features. Circuit includes extra features such as a switch. Little/no errors in any process.	Outstanding overall finish on acrylic edges which is smooth and finished with polish Attention to details are evident - very few/no errors visible.	Works independently with tools and equipment and overcomes problems along the way. Supports others with tasks demonstrating skills and understanding.

Photographic evidence will be used to help assess outcomes