DT Year 6 Autumn 2 2023 Electrical Systems

As all children will only be visiting Electrical Systems once in the 3 year cycle, all children should be given the opportunity to attain all objectives however it is understood that not all objectives will be achieved due to age related technical ability.	Markers for Assessment	Below	Above
De active de la abe l'elateu techniqui ability.	Can the children independently make an		
Substantive Knowledge	electrical circuit that works?		
To use simple circuit in product			
to use number of components in circuit - confidently			
• To incorporate different components into their circuit e.g. switch, buzzers, bulbs and motors	Have they considered how the electrical		
To use different types of circuit in product	component will create function or ascetic		
To think of ways in which adding a circuit would improve product	qualities and incorporated this in their design?		
Disciplinary Knowledge			
Design	A contract the second s		
• Use research and develop design criteria to inform the design of innovative, functional, appealing products that are fit for purpose, aimed at particular individuals or groups.	Are they able to evaluate what has gone well and what could be improved?		
Make			
 Select from and use a wider range of tools and equipment to perform practical tasks accurately. 			
• Select from and use a wider range of materials and components, including textiles according to their functional properties and aesthetic.			
Evaluate			
 Evaluate their ideas and products against their own design criteria and consider the views of others to improve their work. 			
Prior Skills and Knowledge	Vocabulary	1	•
• Electricity has not yet been covered for these children.	battery, battery pack, positive, negative, bulb, bulb holder, buzzer, circuit, circuit symbol, component, conductor, copper, current, design, design criteria, evaluation, function, insulator, LED, plan, pliers, prototype, series circuit, target audience, test, wire cutters		
Questions			
How can an electrical component enhance the product?			
How can the circuit be fixed into the product?			
What could be causing the circuit to not work?			