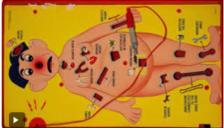


Spring Inventions		Vocabulary	Technical Knowledge	Research	Design	Make	Evaluate
KS1 Electrical Technology	How do toys use technology to entertain children? 	Circuit Electricity Faults Batteries Design Wire Component	Know what a series circuit is. Know that the cell or battery provides the power. How technology is used in products [such as switches, bulbs, buzzers and motors]	Research how technology can power products for entertainment 	Design a product based on a design criteria.	Make a product, selecting and using a range of materials and components and following instructions 	Evaluate their product against a design criteria.
LKS2 Electrical Technology	How can electricity be used to help us?	Switches Buzzers Bulbs Motors Circuits Series circuit Parallel circuit Wires System Electricrical Disassemble	The difference between a series and parallel circuit. How to find faults in circuits and battery operated devices How to test if a circuit will work or not.	Research existing products with circuits by disassembling and investigating how they work.	Design their own product and circuit. 	Make a product including a circuit.	Refine work and techniques as work progresses, continually evaluating the product design.
UKS2	Why are torches all different shapes and sizes?	<u>Series circuit</u> <u>Parallel circuit</u> Symbols <u>Circuits</u> Components Exploded diagram Prototypes Continual refinements Electronic kits	Know how series and parallel circuits work. Draw circuits in designs using the correct symbols. Know to draw an exploded diagram.	Research a variety of torches and understand why they are constructed differently 	Design with the user in mind, a functional product that is fit for purpose I.e. a reading light that is compact or a general torch that is bright	Make a product through stages of prototypes, making continual refinements.	Evaluate the design of products, to improve the user experience 