
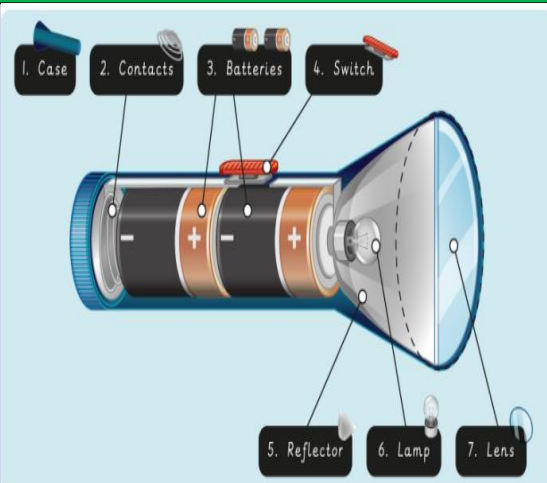


Year 4: Electrical systems Knowledge Mat

Subject Specific Vocabulary		Product outcome	Important knowledge about electrical systems:
design criteria	To make or draw plans for the structure or form of a product to achieve a set standard.		<input type="checkbox"/> I can identify electrical conductors and insulators and know that a battery contains stored electricity which can be used to power products.
prototype	An original model on which improvements are later developed.		<input type="checkbox"/> I know the features of a torch and know how a torch works.
unique	Being the only one of its type. There is nothing else quite like it.		
modify	To make changes to the product.		
analyse	To examine and explain products.		
series circuit	A circuit where the current flows through each component.	Components of a torch 	<input type="checkbox"/> I can design a torch that meets the design specification.
fault	An error in the circuit so it does not work.		
connection switch	A device used to make or break the connection.		<input type="checkbox"/> I can use appropriate equipment to create a working circuit using a switch.
insulator	A material that does not conduct electricity.		<input type="checkbox"/> I can refer back to my original design and make improvements to refine my final, finished product.
conductor	A material that allows the electrical current to flow through it.		<input type="checkbox"/> I can evaluate my torch referring to my design specification and provide suggestions on how I can improve my product.