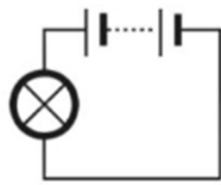


D.T	Year 4
Focus: Circuits (electrical components)- Lamps	
Age related DT vocabulary	

Circuit a closed loop that electricity can flow around	Energy something that gives something else power	Fit for purpose If a product meets its design brief (e.g. it does what you intended it to do) it is 'fit for purpose'
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Series Circuit



Key Knowledge
<ul style="list-style-type: none"> ⇒ Thomas Edison invented the lightbulb ⇒ There are two types of electricity, mains electricity (plug in) and battery electricity (don't plug in) ⇒ A design brief shows who will use the product, where it will be used and the design features ⇒ You get series circuits where the electricity runs in one loop and if any part fails, the whole thing fails ⇒ You get parallel circuits where each component has its own loop of electricity ⇒ Switches break or complete a circuit

Carlton Assessment Grid			
Success Criteria	Pupil Reflection		Teacher Assessment
I can explain how key events and individuals in design and technology have helped shape the world	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can use series and parallel circuits, which include a switch, to light a bulb	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can develop and communicate a design for my light	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can select materials and components to make my light	Before <input type="checkbox"/>	After <input type="checkbox"/>	
I can evaluate my finished product	Before <input type="checkbox"/>	After <input type="checkbox"/>	