

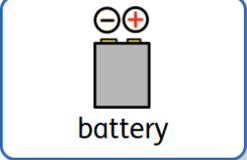
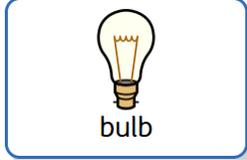
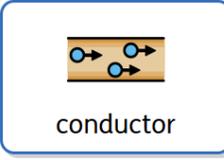
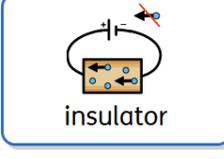
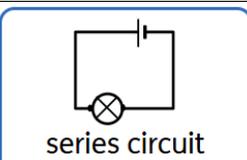
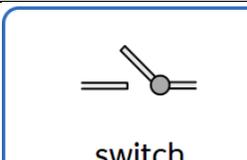
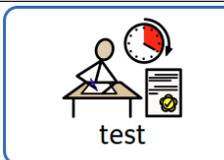
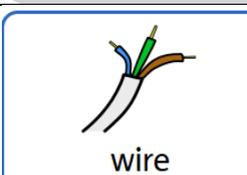


**Year 4 Autumn 1:
Electrical Systems:
Torches**

**Key Question :
Can you design a torch for a target audience?**

Lesson 1 Can you learn about electrical items and how they work?	Lesson 2 Can you analyse and evaluate electrical products?	Lesson 3 Can you design a product to fit a set of specific user needs?	Lesson 4 Can you make and evaluate a torch?
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Vocabulary

 battery	A cell which provides electrical energy to power a circuit	 bulb	A part of a circuit that lights up	 conductor	Material that allows electricity to travel through it
 design criteria	A set of rules for the designer to follow	 electricity	A type of energy that can be used to make things work	 insulator	A material electricity does not pass through
 series circuit	Closed circuit that follows one path	 switch	The part of the circuit that opens or closes to either allow to stop the flow of electricity	 test	To find out if something works
 torch	A battery-powered light that can be carried	 wire	A thin piece of copper that conducts electricity	Many products use batteries.  remote control  mobile phone  torch  remote control car	