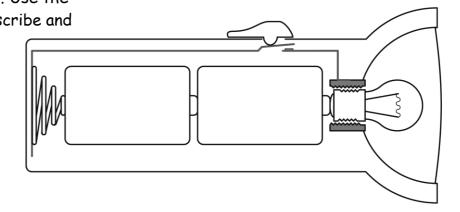
How does a torch work?

A torch has a circuit in it. Use the diagram of a torch to describe and explain your ideas about energy and electricity.
Use the level ladder below to help you achieve your target.



Task:

- Use the diagram above to help you explain how the torch works.
- Draw a circuit diagram of the torch.
- Use a model of an electric circuit to explain how the circuit works.

Key words: battery (cell), bulb, conductor, current, insulator, metal, plastic, switch, voltage, wire

Level ladder:

What is your target level? Use the level ladder to help you reach it:

| Challenge | You might have: |
|-----------|---|
| Easy | Drawn a circuit diagram using standard circuit symbols. Described the job of the cells, wires, bulb and switch. Described materials in the torch as conductors and insulators. |
| Medium | Drawn a circuit diagram using standard circuit symbols. Explained the job of the cells, wires, bulb and switch. Drawn a model of electricity to explain how the circuit works, using the terms current and voltage correctly. Explained why the parts of your model are like the real circuit components. Described limitations of the model circuit compared to the actual circuit. |
| Hard | Drawn a circuit diagram using standard circuit symbols. Drawn a model of electricity to explain how the circuit works, using the terms current and voltage correctly. Explained why the parts of your model are like the real circuit components. Explained limitations of the model circuit compared to the actual circuit. Used a model of electricity to describe the energy transfers in a circuit. |