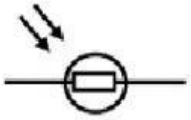
Learning Check: Circuit Symbols and Resistance

1. Identify the components shown in the table below.

2. Complete the following sentence;

   The voltage of a battery is equal to the per unit charge.

3. The energy that is stored in a battery is transferred to components in a circuit through the movement of electrons. Complete the following sentence:

   The movement of electrons causes a to flow around the circuit.

4. Complete the table below to link electrical quantities to their symbols and units.

Quantity	Quantity symbol	Unit name	Unit symbol
	p.d.		V
resistance			Ω
energy	E		
		amp (or ampere)	A
	Q		C

5. Fill-in the boxes below to complete the equation defining resistance in terms of two other electrical quantities. (Provide the correct **symbols** for both quantities to score this mark.)

$$R = \frac{\square}{\square}$$

6. When a lamp is inserted into an electric circuit it transfers some of the electrical energy. Complete the following sentences (both answers are required to score this question's mark).

   The across the lamp indicates the amount of energy transferred by the lamp.

   Measurements of the before and after the lamp will give exactly the same values.