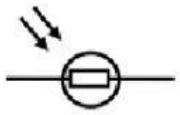
Learning Check: Circuit Symbols and Resistance

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.