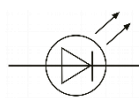
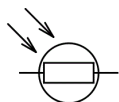


## Electricity – circuits

Reading: pages 179-185 higher, 180-187 foundation

### Knowledge

1. What is a series circuit?
2. Draw the symbol for a resistor.
3. Name the following circuit components.



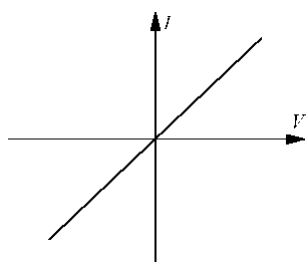
3. What is 'resistance'?
4. What is the equation linking charge, current and time?
5. What are the units for charge?
6. What is 'Ohm's Law'?
7. What is an 'ohmic conductor'?
8. What happens to the wires in a filament lamp as a current passes through?
9. Complete the table

Circuit	Current	Voltage
Series	Same at all points	
Parallel		

10. What is the total resistance in a series circuit with multiple resistors?
11. What happens to resistance when there are multiple components in parallel?

### Application

1. Describe the relationship shown in the graph below. Suggest the component used.



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2. A student measured current and voltage through a filament lamp. Sketch the graph she should expect to get.

