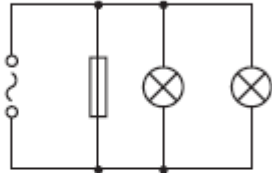
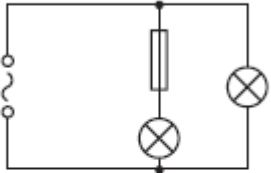
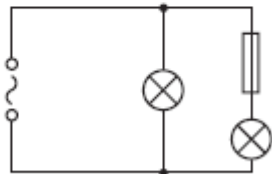
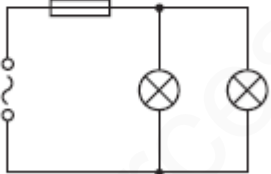
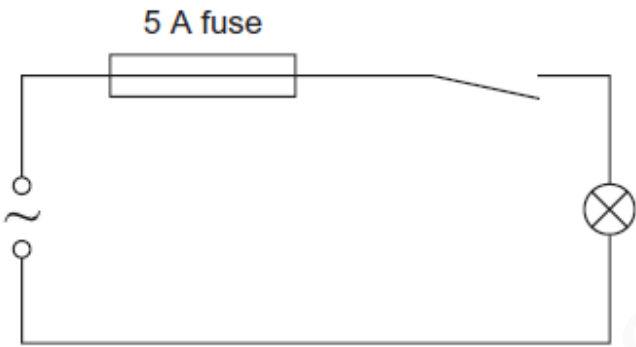

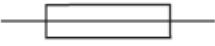
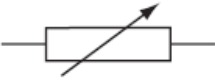

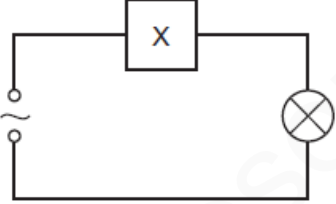


FUSE-CIRCUIT BREAKERS-SET-1

1	<p>A student makes four circuits.</p> <p>In which circuit are both lamps protected by the fuse?</p> <div style="display: flex; justify-content: space-around; align-items: flex-start;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> </div> <div style="display: flex; justify-content: space-around; align-items: flex-start; margin-top: 20px;"> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
MS-1	D
2	<p>Which statement is correct?</p> <p>A A fuse is included in a circuit to prevent the current becoming too high.</p> <p>B A fuse should be connected to the neutral wire in a plug.</p> <p>C An electric circuit will only work if it includes a fuse.</p> <p>D An earth wire is needed to prevent the fuse blowing.</p>
MS-2	A

3	<p>A student makes the circuit shown.</p>  <p>The fuse has blown and stopped the current.</p> <p>What could have caused this?</p> <p>A The current rating of the fuse was too high. B The current was too large. C The lamp was loose. D The voltage was too small.</p>
MS-3	B
4	<p>Why is a fuse used in an electrical circuit in a house?</p> <p>A to increase the circuit resistance B to keep the power used to a minimum value C to prevent a short-circuit from occurring D to stop the cables from carrying too much current</p>
MS-4	D

5	<p>What is the symbol for a fuse?</p> <div style="display: flex; justify-content: space-around; align-items: center;"> <div style="text-align: center;"> <p>A</p>  </div> <div style="text-align: center;"> <p>B</p>  </div> <div style="text-align: center;"> <p>C</p>  </div> <div style="text-align: center;"> <p>D</p>  </div> </div>
MS-5	B
6	<p>The device X in this circuit is designed to cut off the electricity supply automatically if too much current flows.</p> <div style="text-align: center;">  </div> <p>What is device X?</p> <ul style="list-style-type: none"> A a fuse B a switch C a resistor D an ammeter
MS-6	A

7

The diagram shows a fire.



Why does the smoke rise above the fire?

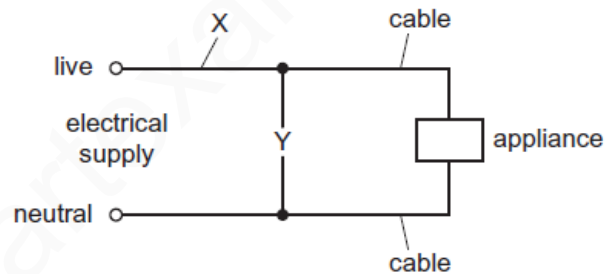
- A** Smoke evaporates more quickly at higher temperatures.
- B** Smoke molecules diffuse more quickly at higher temperatures.
- C** The density of the air is lower at higher temperatures.
- D** The pressure of the air is greater at higher temperatures.

MS-7

C

8

Either a fuse or a circuit-breaker can be used to protect electrical cables from large currents that could cause overheating.



If a fuse is used, in which position in the circuit should it be connected, and if a circuit-breaker is used, in which position should it be connected?

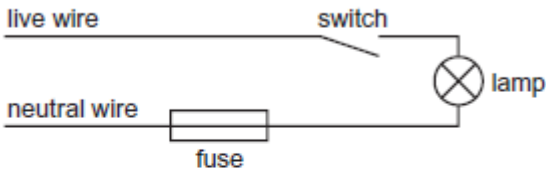
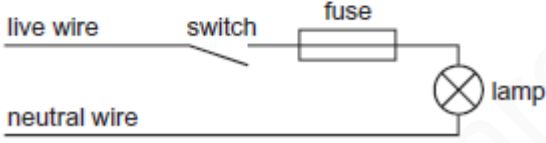
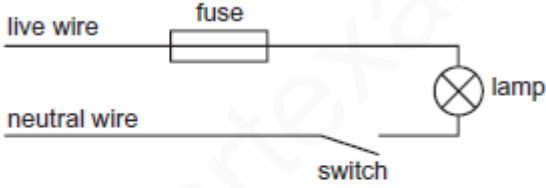
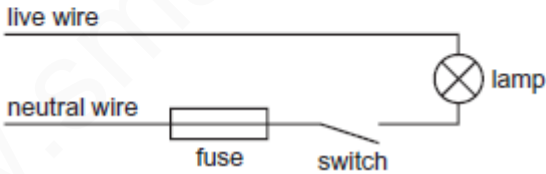
	position of fuse	position of circuit-breaker
A	X	X
B	X	Y
C	Y	X
D	Y	Y

MS-8

A

9	<p>The current in a lamp at full brightness is 0.25 A. The flexible cable to the lamp is designed for currents up to 5.0 A, so it can safely carry the 0.25 A taken by the lamp.</p> <p>Which fuse should be inserted in the plug at the other end of the flexible cable?</p> <p>A 0.2A B 1.0A C 5.0A D 10.0A</p>
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MS-9	B
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10	<p>Which diagram shows the correct positions for both the switch and the fuse?</p> <p>A </p> <p>B </p> <p>C </p> <p>D </p>
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MS-10	B
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11	<p>After some building work in a house, a bare (uninsulated) live wire is left protruding from a wall.</p> <p>What is the greatest hazard?</p> <p>A a fire</p> <p>B a fuse will blow</p> <p>C an electric shock</p> <p>D no current will flow</p>
MS-11	C