

P5 – electricity in the home	Recall answers
1. What is the potential difference of mains electricity?	230V
2. What is the frequency of mains electricity?	50Hz
3. What is alternating current (AC)?	Current in a circuit that repeatedly reverses its direction
4. What supplies alternating current?	Mains electricity
5. What is direct current (DC)?	Current in a circuit that is in one direction only
6. What supplied direct current?	Battery
7. What colour is the live wire?	Brown
8. What is the green and yellow stripped wire?	Earth
9. What colour is the neutral wire?	Blue
10. Which wire carries the alternating potential difference from the mains supply?	Live
11. Which wire completes the circuit?	Neutral
12. What are the pins of the plug made from and why?	Brass, because its strong and a good conductor of electricity
13. Why do we need a cable grip?	To keep the cables in place so they don't come loose
14. What material is the casing of the plug? Why?	Plastic because it is an insulator
15. What is a fuse?	It contains a thin wire that melts and cuts off the current if too much current passes through.
16. What fuse should be used for a device drawing 4A? a) 3A b) 5A c)10A	5A
17. Why is it not safe to touch a live wire even if the device is switched off?	People's bodies are at 0V. if you touch a live wire a big potential difference act across your body causing a current to flow. This will cause and electric shock.