

Answers to GCSE Physics air fryer questions

1. Electrical energy is transferred to thermal energy and kinetic energy.
2. Alternating current, AC.
3. The heating element has a high resistance, so electrical energy is transferred to thermal energy.
4. Convection.
5. Infrared radiation.
6. 7.8 A.
7. 1840 W.
8. 300 s.
9. 1600 W.
10. 10 A.
11. Hot air is moved quickly around a small space, so energy is transferred to the food faster.
12. 1350000 J, or 1350000 Joules.
13. Energy is not created; it is transferred from electrical energy to thermal energy.
14. 2000 J each second, or 2000 W.
15. The fan moves hot air around the food, transferring thermal energy by convection.
16. A high resistance allows the element to transfer electrical energy into thermal energy.
17. a) 2160000 J
b) 2160 kJ
c) 0.6 kWh.