

P3 Magnetic Fields Quiz

1. An electric motor produces a turning force. Give two ways in which to increase the turning force.
2. Which appliances have an electric motor: electric drill, electric kettle, electric fan, electric iron, electric food mixer and electric screwdriver?
3. Give two ways of reversing the direction of the forces on a coil in an electric motor.
4. In what circumstance will no force act on a conductor carrying an electric current in a magnetic field?
5. Why is the core of a transformer made of iron?
6. Give two advantages of having a National Grid system.
7. What does a step down transformer do?
8. Give one advantage of using a switch mode transformer, rather than a traditional transformer inside mobile phone chargers.
9. Why must a mains adapter contain a transformer?
10. Describe what happens when an alternating potential difference is applied across the primary coil of a transformer.
11. Why are the primary and secondary coils of a transformer made of insulated wire?