

Magnetism (KS3)

Section A – Recall (1–2 marks each)

Q1 (1 mark)

What are the two types of magnetic poles?

Q2 (1 mark)

What happens when two like poles are brought together?

Q3 (1 mark)

What device is used to detect magnetic fields?

Q4 (1 mark)

What do magnetic field lines show?

Q5 (2 marks)

State TWO metals that are attracted to a magnet.

Q6 (2 marks)

State TWO uses of magnets in everyday life.

Section B – Understanding (2–3 marks each)

Q7 (3 marks)

Explain what happens when opposite magnetic poles are brought together.

Q8 (3 marks)

Explain how magnetic field lines represent a magnetic field.

Q9 (3 marks)

State a use of a compass and explain how a compass uses the Earth's magnetism.

Section C – Application (3–4 marks each)

Q10 (3 marks)

A bar magnet is brought close to a steel paperclip.
Explain what happens and why.

Q11 (4 marks)

A current is passed through a wire near a compass needle.
Explain what happens to the needle and why.

Q12 (4 marks)

An electromagnet is made using a coil of wire and a battery. It has an iron core. Explain how the electromagnet works and how its strength can be increased.

Section D – Extended Response (6 marks)

Q13 (6 marks)

Discuss magnetism. Include:

- the magnetic effect of a current,
- how electromagnets work and how they are strengthened,
- the basic principles of a DC motor.

Total: ____ / 34

Percentage: ____%