Blurt it

Step 1

Name _____ **Date** _____

1. Cover your notes and put your phone face down.
2. Set a timer for 5 minutes.
3. Write down everything you remember about magnetism and electromagnetism: facts, key words, equations, practicals, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: magnetic field · solenoid · electromagnet

When the timer ends, turn over and check what you remembered.

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.

Check it, fix it, space it

Steps 2, 3 and 4

Check it

Tick each idea you wrote down, even in your own words.

- [ ] Like poles repel and unlike poles attract; this is a non-contact force
- [ ] A permanent magnet makes its own field; an induced magnet is only magnetic in a field and is always attracted
- [ ] Iron, steel, cobalt and nickel are magnetic materials
- [ ] Field lines go from north to south; the field is strongest at the poles
- [ ] A compass lines up with the field; this is evidence that the Earth's core is magnetic
- [ ] Use a compass to plot a magnet's field pattern
- [ ] A current in a wire makes a magnetic field around it
- [ ] A solenoid makes the field strong and even inside; adding an iron core makes an electromagnet

Higher only

- [ ] Motor effect: a wire carrying a current in a magnetic field feels a force
- [ ] Fleming's left-hand rule shows the directions of the force, the current and the field
- [ ] Force = magnetic flux density × current × length
- [ ] The motor effect makes a coil carrying a current turn: this is how an electric motor works

Key words to use: magnetic pole · magnetic field · permanent magnet · induced magnet · solenoid electromagnet · motor effect · Fleming's left-hand rule · magnetic flux density

I remembered _____ out of 8. **Higher only: _____ out of 4.**

Fix it

Pick 3 ideas you missed. Look them up, then write each one correctly.

1

2

3

Space it

Blurt again on a fresh sheet. Gaps help you remember for longer.

Tomorrow
Date _____
Score _____ / 8
Higher only _____ / 4

In 3 days
Date _____
Score _____ / 8
Higher only _____ / 4

In a week
Date _____
Score _____ / 8
Higher only _____ / 4

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.