GCSE COMBINED SCIENCE · ELECTRICITY

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 electricity: facts, key words, equations, practicals, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: current · resistance · parallel circuit

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.

GCSE COMBINED SCIENCE · ELECTRICITY

Check it, fix it, space it

Steps 2, 3 and 4

Check it

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

- [ ] Current is the rate of flow of charge: charge = current × time
- [ ] Potential difference = current × resistance; ohmic conductors keep a constant resistance
- [ ] A filament lamp's resistance rises as it gets hot; a diode only lets current flow one way
- [ ] A thermistor's resistance falls as it gets warmer; an LDR's resistance falls as it gets brighter
- [ ] Series: the same current everywhere, the potential difference is shared, and total resistance = R1 + R2
- [ ] Parallel: the same potential difference across each branch, the currents add up, and total resistance is less than the smallest resistor
- [ ] UK mains electricity is alternating current at 50 Hz and about 230 V
- [ ] Live wire is brown, neutral is blue, earth is green and yellow
- [ ] Power = potential difference × current = current² × resistance; energy = power × time = charge × potential difference
- [ ] The National Grid uses step-up transformers to send electricity efficiently and step-down transformers to make it safe for homes

Higher only

- [ ] Transformers: potential difference × current in the primary coil = potential difference × current in the secondary coil

Key words to use: current · potential difference · resistance · ohmic conductor · thermistor · LDR · diode · series circuit · parallel circuit · alternating current · direct current · live wire · neutral wire

I remembered _____ out of 10. **Higher only: _____ out of 1.**

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 _____ / 10
Higher only _____ / 1

In 3 days

Date _____
Score _____ / 10
Higher only _____ / 1

In a week

Date _____
Score _____ / 10
Higher only _____ / 1

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