GCSE COMBINED SCIENCE · CELL BIOLOGY

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

Stuck? Start with one of these: mitochondria · diffusion · stem cell

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

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Check it, fix it, space it

Steps 2, 3 and 4

Check it

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

- [ ] Eukaryotic cells (plant and animal) have a nucleus; prokaryotic cells (bacteria) are smaller, with a single loop of DNA and sometimes plasmids
- [ ] Animal cells have a nucleus, cytoplasm, cell membrane, mitochondria and ribosomes; plant cells also have chloroplasts, a permanent vacuole and a cellulose cell wall
- [ ] Magnification = size of image ÷ size of real object
- [ ] Specialised cells, like sperm, nerve, muscle and root hair cells, have a structure that suits their job
- [ ] Electron microscopes magnify more and show finer detail than light microscopes
- [ ] The cell cycle ends in mitosis, which makes two genetically identical cells
- [ ] Stem cells are undifferentiated and can become other cell types: found in embryos, bone marrow and plant meristems
- [ ] Diffusion: particles spread from high to low concentration, faster with a steeper gradient, a higher temperature and a bigger surface area
- [ ] Osmosis: water moves from a dilute to a more concentrated solution through a partially permeable membrane
- [ ] Active transport moves substances against the concentration gradient and needs energy from respiration

Key words to use: eukaryote · prokaryote · nucleus · cytoplasm · cell membrane · mitochondria · ribosome · chloroplast · plasmid · cell wall · differentiation · stem cell · meristem · mitosis · diffusion

I remembered _____ out of 10.

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	In 3 days	In a week
Date _____	Date _____	Date _____
Score _____ / 10	Score _____ / 10	Score _____ / 10

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