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

Stuck? Start with one of these: potable water · life cycle assessment · desalination

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.

- [ ] Sustainable development meets today's needs without harming the needs of future generations
- [ ] Finite resources will run out; renewable resources can be replaced
- [ ] Potable water is safe to drink, but it is not pure
- [ ] UK drinking water: choose a source, pass it through filter beds, then sterilise it with chlorine, ozone or ultraviolet light
- [ ] Desalination (distillation or reverse osmosis) turns salty water into drinking water but uses lots of energy
- [ ] Sewage treatment: screening, sedimentation, anaerobic digestion of sludge, then aerobic treatment of effluent
- [ ] A life cycle assessment looks at a product's impact from raw materials to disposal
- [ ] Some parts of a life cycle assessment need value judgements, so it can be biased
- [ ] Reduce, reuse and recycle to save resources and energy; glass and metals can be melted down and recycled

Higher only

- [ ] Phytomining: plants absorb metal compounds, then are burned to leave ash containing the metal
- [ ] Bioleaching: bacteria make a solution containing metal compounds
- [ ] These methods get metals like copper from low-grade ores; the metal is then extracted by displacement or electrolysis

Key words to use: finite resource · renewable resource · sustainable development · potable water desalination · sewage treatment · life cycle assessment · phytomining · bioleaching · recycling

I remembered _____ out of 9. **Higher only: _____ out of 3.**

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 _____ / 9	Score _____ / 9	Score _____ / 9
Higher only _____ / 3	Higher only _____ / 3	Higher only _____ / 3

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