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 atomic structure and the periodic table: facts, key words, equations, practicals, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: isotope · electronic structure · halogen

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.

- [ ] Atoms are the smallest part of an element; compounds are elements chemically combined in fixed proportions
- [ ] Mixtures are not chemically combined and can be separated by filtration, crystallisation, distillation and chromatography
- [ ] The model of the atom changed with new evidence: solid sphere, plum pudding, nuclear model, Bohr's energy levels, then protons and neutrons
- [ ] The alpha scattering experiment showed that the mass is in a tiny charged nucleus
- [ ] Protons are positive, electrons are negative and neutrons have no charge; atoms have equal numbers of protons and electrons
- [ ] Atomic number = protons; mass number = protons + neutrons; isotopes have different numbers of neutrons
- [ ] Electrons fill the lowest energy level first, for example sodium is 2,8,1
- [ ] Elements in the same group have the same number of outer electrons, so they react in similar ways
- [ ] Mendeleev left gaps for elements that had not been discovered yet
- [ ] Group 0 is unreactive; Group 1 gets more reactive going down; Group 7 gets less reactive going down

Higher only

- [ ] Write balanced half equations and ionic equations

Key words to use: atom · element · compound · mixture · isotope · atomic number · mass number relative atomic mass · electronic structure · energy level/shell · periodic table · group · period

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

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