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 area and volume of compound shapes: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: cross-section · radius · surface area

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.

- [ ] Area of a triangle = ½ × base × perpendicular height
- [ ] Area of a parallelogram = base × perpendicular height
- [ ] Area of a trapezium = ½ × (sum of the parallel sides) × height
- [ ] Circle: circumference = πd, area = πr^2. Use the radius in πr^2, not the diameter
- [ ] In terms of π: leave π in the answer instead of rounding
- [ ] Compound shapes: split into known shapes with no gaps or overlaps, then add or subtract
- [ ] Volume of a prism or cylinder = area of the cross-section × length
- [ ] Pick the face that runs all the way through the shape as the cross-section
- [ ] Volume of a pyramid or cone = ⅓ × base area × height
- [ ] Sphere: volume = $4\pi r^3 \div 3$, surface area = $4\pi r^2$. Cone curved surface = πrl (l is slant height)
- [ ] Surface area is the total area of every face: do not mix it up with volume
- [ ] Frustum: the volume of the whole cone minus the small cone cut off the top
- [ ] Units: 1 m^2 = 10 000 cm^2 (not 100) and 1 m^3 = 1 000 000 cm^3
- [ ] Rearrange a formula to find a missing length, such as a prism's height from its volume
- [ ] Finding a radius from a volume: rearrange first, then take the square root (cylinder) or cube root (sphere) at the end

Key words to use: area · volume · compound shape · prism · cross-section · circumference · diameter radius · surface area · frustum · composite solid

I remembered _____ out of 15.

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 _____ / 15	Score _____ / 15	Score _____ / 15

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