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 compound measures and proportion: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: speed · density · direct proportion

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.

- [ ] Speed = distance ÷ time
- [ ] Density = mass ÷ volume
- [ ] Pressure = force ÷ area
- [ ] Rearrange carefully: distance = speed × time, mass = density × volume, force = pressure × area
- [ ] Compound units combine two units, such as m/s, g/cm³ or N/m²
- [ ] Convert km/h to m/s: multiply by 1000, then divide by 3600
- [ ] Convert units before you calculate: never mix km and m
- [ ] Direct proportion y = kx: find k from a pair of values, then use it
- [ ] Inverse proportion y = k ÷ x: find k from a pair of values, then use it
- [ ] Solve direct proportion problems by scaling or using ratio
- [ ] Direct proportion graph: a straight line through the origin
- [ ] Inverse proportion graph: a curve, as one quantity goes up the other goes down
- [ ] Decide whether it is direct or inverse before you set up the equation
- [ ] Growth and decay: multiplier to the power of the number of time periods

Higher only

- [ ] Write a proportion equation from words, such as “y is directly proportional to x squared”
- [ ] y can be proportional to a power of x, such as $y = kx^2$ or $y = k \div x^3$: find k, then use it

Key words to use: speed · density · pressure · compound measure · compound unit · direct proportion · inverse proportion · proportionality constant · multiplier · growth · decay

I remembered _____ out of 14. **Higher only: _____ out of 2.**

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 _____ / 14	Score _____ / 14	Score _____ / 14
Higher only _____ / 2	Higher only _____ / 2	Higher only _____ / 2

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