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 vectors and bearings: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: vector · resultant · bearing

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

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.

Check it, fix it, space it

Steps 2, 3 and 4

Check it

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

- [ ] A vector has a size and a direction: it can be a column vector or a letter such as a
- [ ] Column vector: top number is across (right is positive), bottom is up (up is positive)
- [ ] Add vectors: add the top numbers, then add the bottom numbers
- [ ] Subtract vectors part by part, taking care with negative signs
- [ ] Multiply by a scalar: multiply both numbers; a negative scalar reverses the direction
- [ ] The resultant is the single vector that does the same as two or more vectors in a row
- [ ] Vectors are not just coordinates: their direction matters
- [ ] Bearings are measured clockwise from north
- [ ] Always write a bearing with three figures, such as 060°
- [ ] Bearing of B from A: start at A, face north, turn clockwise to B
- [ ] Use angle facts, such as angles on parallel north lines, to solve bearing problems

Higher only

- [ ] Write a vector in terms of given vectors by following a route around the diagram
- [ ] The midpoint of a line is halfway along it: use half the vector
- [ ] Parallel vectors are multiples of each other
- [ ] Collinear points: the vectors are multiples of each other and share a point
- [ ] In a proof, finish by saying what it shows: the lines are parallel or the points are collinear
- [ ] Combine bearings with trigonometry or scale drawings

Key words to use: vector · scalar · magnitude · resultant · column vector · bearing · collinear · parallel

I remembered _____ out of 11. **Higher only: _____ out of 6.**

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 _____ / 11	Score _____ / 11	Score _____ / 11
Higher only _____ / 6	Higher only _____ / 6	Higher only _____ / 6

Speca is an independent product and is not affiliated with, endorsed by, or sponsored by AQA or any other exam board.