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 transformations and constructions: methods, key words, examples, and mistakes to avoid. Diagrams count too.

Stuck? Start with one of these: translation · enlargement · locus

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.

- [ ] Translate with a column vector: top number across, bottom number up or down
- [ ] Reflect in a mirror line, including y = x: same distance away, measured at right angles
- [ ] Rotate about a centre by 90°, 180° or 270°, clockwise or anticlockwise; tracing paper helps
- [ ] Enlarge from a centre by a scale factor: multiply each distance from the centre
- [ ] A scale factor between 0 and 1 makes the shape smaller, and it is still an enlargement
- [ ] Describe fully: a translation needs a vector, a reflection needs its mirror line
- [ ] Rotation: give the centre, angle and direction. Enlargement: give the centre and scale factor
- [ ] Construct a perpendicular bisector and an angle bisector with compasses
- [ ] Construct a triangle from three side lengths (SSS) with compasses and a ruler
- [ ] Construct a perpendicular from a point to a line, and at a point on a line
- [ ] Never rub out construction arcs: they show your method
- [ ] Locus: points a fixed distance from a point make a circle
- [ ] Equidistant from two points: perpendicular bisector. From two lines: angle bisector
- [ ] Shade the region that meets every condition, on the correct side of each boundary

Higher only

- [ ] Negative scale factor: the image is on the other side of the centre, turned through 180°
- [ ] Describe the single transformation that does the same job as two in a row
- [ ] Find invariant points or lines: the ones that stay in the same place

Key words to use: translation · vector · reflection · mirror line · rotation · centre of rotation · angle of rotation · clockwise · anticlockwise · enlargement · centre of enlargement · scale factor

I remembered _____ out of 14. **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 _____ / 14	Score _____ / 14	Score _____ / 14
Higher only _____ / 3	Higher only _____ / 3	Higher only _____ / 3

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