

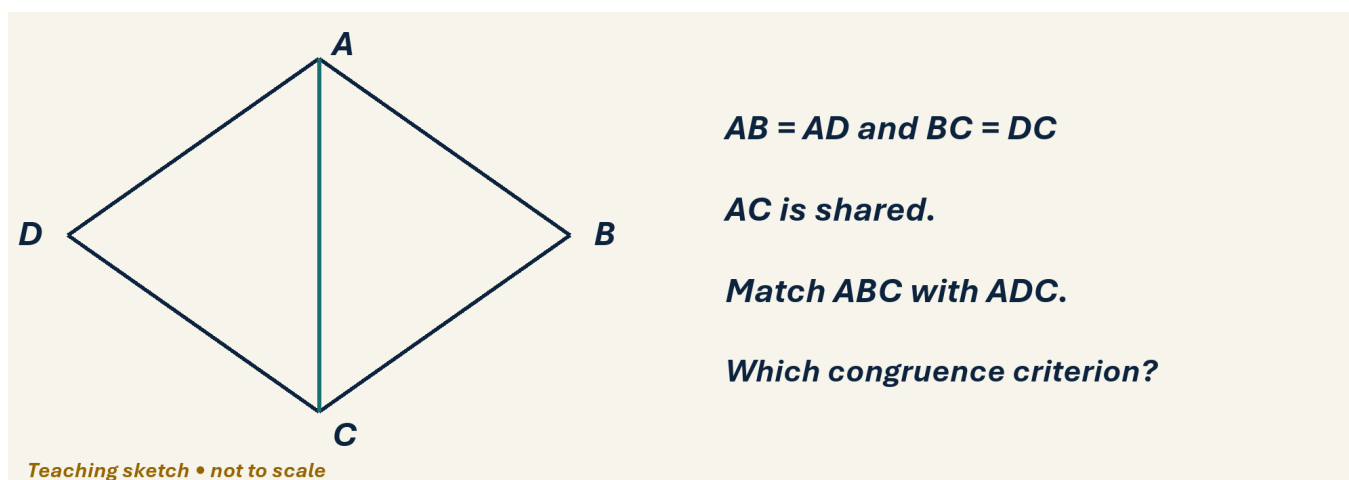
Congruence and geometric reasoning

Pearson Edexcel GCSE Mathematics 1MA1 • L027

Shared Foundation/Higher content • teacher-reviewed drawing • Lesson resources

REACH FOR THE STAR | GCSE MATHEMATICS

Use during the matching workbook tasks, not as extra compulsory work within the hour. Teaching sketches are not to scale. Draw specified lengths yourself; do not measure the printed sketch. Use additional plain paper if needed.



Draw, explain and check

On the kite diagram, mark $AB=AD$ and $BC=DC$ using different tick styles. Use the shared diagonal AC to prove triangles ABC and ADC congruent. Then prove angle BAC equals CAD . Write a reason beside every statement.

Optional scaffold: name the given facts; mark the first point or segment; explain your first step aloud. Then work without the prompt. Your teacher reviews diagrams and reasoning; there is no automatic drawing score.

Your working space

Record reasons and units. Coordinate grids: one square is one coordinate unit, regardless of printed size. For constructions or scale drawings use blank paper and draw the specified lengths with your own ruler.

This image shows a single sheet of white paper with horizontal ruling lines. The lines are evenly spaced and run across the width of the page. There are no margins, text, or other markings on the paper.

Teacher feedback and fresh-check date: _____