



M21 Circle equations and tangents

Personal learning checklist | 1 of 1

GCSE Edexcel Mathematics | All three papers | Higher only

Name _____ Class _____ Date _____

Tick one box for each statement. Red: need help. Amber: partly confident.
Green: can do independently.

All statements are Higher tier.

I can	Red	Amber	Green
Core methods			
Write origin-centred circle equations and interpret their radii (Higher).	☐	☐	☐
Check points and find circle intercepts, distinguishing inside, outside and boundary (Higher).	☐	☐	☐
Applying and explaining			
Use perpendicular radius and tangent gradients, handling horizontal or vertical cases (Higher).	☐	☐	☐
Find and check tangent equations through a stated circle point (Higher).	☐	☐	☐
Find line-circle intersections and interpret zero, one or two contact points (Higher).	☐	☐	☐

My next revision priority _____