Stage 10 – Algebraic Proficiency: Visualising II

WHAT DO WE ALREADY *know*?

- Use the form y = mx + c to identify parallel lines.
- Rearrange an equation into the form y = mx + c.
- Find the equation of a line through one point with a given gradient.
- Find the equation of a line through two given points.
- Know and apply Pythagoras' Theorem.

- Identify and understand perpendicular lines using algebraic methods.
- Identify and use the equation of a circle and be able to draw its graph.
- Find the equation of a tangent to circle at a given point and solve algebraic problems involving tangents to a circle.

- Function
- Equation
- Linear
- Parallel
- Perpendicular
- Gradient
- Intercept
- Root
- Centre
- Radius
- Tangent

Algebraic Proficiency: Visualising II - Targets	Before Topic	After Topic	Teacher Mark
Know that perpendicular lines have gradients with a product of -1.			
Identify perpendicular lines using algebraic methods.			
Identify the equation of a circle from its graph.			
Use the equation of a circle to draw its graph.			
Find the equation of a tangent to circle at a given point.			
Solve algebraic problems involving tangents to a circle.			