

## 1.1 Properties of a straight line

At the end of this outcome I should .....		I can do	Revised
1.1.1	Know the gradient formula $m_1 \frac{y_2 - y_1}{x_2 - x_1}$	<input type="checkbox"/>	<input type="checkbox"/>
1.1.2	Know the distance formula $m_1 \sqrt{(x_2 - x_1)^2 + (y_2 - y_1)^2}$	<input type="checkbox"/>	<input type="checkbox"/>
1.1.3	Know gradient of a straight line $= \tan \theta$	<input type="checkbox"/>	<input type="checkbox"/>
1.1.4	Recognise the term locus	<input type="checkbox"/>	<input type="checkbox"/>
1.1.5	Know the equation of a line of the form $ax^2 + bx + c = 0$	<input type="checkbox"/>	<input type="checkbox"/>
1.1.6	Know equation of line of the form $y-b = m(x-a)$	<input type="checkbox"/>	<input type="checkbox"/>
1.1.7	Determine equation from 2 points or 1 point gradient	<input type="checkbox"/>	<input type="checkbox"/>
1.1.9	Know the gradients of parallel lines are equal	<input type="checkbox"/>	<input type="checkbox"/>
1.1.9	Know lines with gradient $m_1$ & $m_2$ are perpendicular when $m_1 m_2 = -1$	<input type="checkbox"/>	<input type="checkbox"/>
1.1.10	Solve problems using above properties of straight lines	<input type="checkbox"/>	<input type="checkbox"/>
1.1.11	Know concurrency properties of medians, altitudes, angle bisectors and perpendicular bisectors	<input type="checkbox"/>	<input type="checkbox"/>