

Year 8 Mathematics

Level	Algebra 2 - Knowledge, Skills, Understanding
Higher	<p><u>Linear Graphs</u> Find approximate solutions to kinematic problems involving distance and speed</p>
Intermediate	<p><u>Linear Graphs</u> Plot and interpret graphs of piece-wise linear functions in real contexts</p> <p><u>Sequences Nth term</u> Find the position-to-term rule for a given sequence Use the nth term of a sequence to deduce if a given number is in a sequence Generate a sequence using a spreadsheet</p>
Foundation	<p><u>Linear Graphs</u> Know that graphs of functions of the form $y = mx + c$, $x \pm y = c$ and $ax \pm by = c$ are linear Plot graphs of functions of the form $y = mx + c$ ($x \pm y = c$, $ax \pm by = c$) Understand the concept of the gradient of a straight line Find the gradient of a straight line on a unit grid Find the y-intercept of a straight line Sketch a linear graph Distinguish between a linear and quadratic graph Plot and interpret distance-time graphs (speed-time graphs)</p> <p><u>Sequences Nth term</u> Generate a sequence from a term-to-term rule Understand the meaning of a position-to-term rule Use a position-to-term rule to generate a sequence Use algebra to describe the position-to-term rule of a linear sequence (the nth term)</p>