



Learning about Linear Relationships

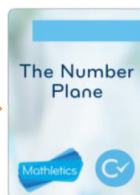
Secondary Mathletics



Year 7 Number Plane



eBOOKS
videos and interactives



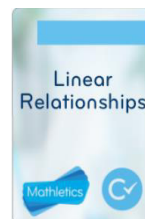
Subtopic	Teacher tools Interactives, videos	Scaffolded learning: printables	Practice and fluency (written)	Practice and fluency (Mathletics activities online)
Grid plane (1 st Quadrant only)	Coordinate pairs	eBook pages 2–3	eBook pages 4–5	
Axes and coordinates (1 st Quadrant only)	Coordinate pairs, first quadrant	eBook pages 6–7	eBook page 8	
Plotting tables of values (1 st Quadrant only)	Linear table of values Explanation video	eBook pages 9–10	eBook pages 11–12	
Dependent and independent variables		eBook page 13	eBook page 14	
Fees and charges		eBook pages 15–16	eBook pages 17–18	
More axes and coordinates (4 Quadrants)	Coordinate pairs, all quadrants	eBook pages 19–21	eBook pages 22–23	Number Plane Ordered Pairs
Interesting applications	TV grid		eBook pages 24–28	
Investigation: TV Grid		TV grid investigation		
A bit of fun at the end			eBook page 29	
Cheat sheet (summary)		eBook page 30		



Year 8 Linear Relationships



eBOOKS
videos and interactives



Subtopic	Teacher tools Interactives, videos	Scaffolded learning: printables	Practice and fluency (written)	Practice and fluency (Mathletics activities online)
Gradient-Intercept form		eBook pages 2-3	eBook pages 4-5	Reading Values from a Line
Rearranging linear relationships		eBook pages 6	eBook page 7-8	Reading Values from a Line
Graphing using the intercept and gradient	Equation of a straight line.	eBook pages 9-10	eBook pages 11-13	
The linear equations from the graph		eBook pages 14	eBook page 15	Equation of a Line 1
Comparing graphs		eBook pages 16	eBook pages 17-19	Which Straight Line?
Intersection of two linear graphs		eBook pages 20-21	eBook pages 22-25	
Reflection Time		eBook pages 26		
Cheat Sheet		eBook pages 27		

PS

PS Problem Solving



Year 8 Straight Lines



Subtopic	Teacher tools Interactives, videos	Scaffolded learning: printables	Practice and fluency (written)	Practice and fluency (Mathletics activities online)
Graphs using tables of values	Graphs using table of values	eBook pages 2	eBook pages 3	Ordered Pairs
Completing and graphing tables of values		eBook pages 4	eBook pages 5-7	Graphing from a Table of Values Reading Values from a Line
Pattern of movement	Patterns of Movement	eBook pages 8	eBook pages 9-10	
Horizontal and Vertical Lines		eBook pages 11	eBook pages 12	
Intercepts	Co-ordinate Pairs	eBook pages 13	eBook pages 14-16	Intercepts
Combining intercepts with the pattern of movement			eBook pages 17	
Graphing using intercepts		eBook pages 18-21	eBook pages 20-21	
Gradient	Gradient	eBook pages 22-23	eBook pages 24-26	
Graphing straight lines using the gradient-intercept rule	Equation of a straight line.	eBook pages 27-28	eBook pages 29-30	
Finding the gradient-intercept rule from the graph		eBook pages 31	eBook pages 32-34	
Reflection time		eBook pages 35		
Cheat Sheet		eBook pages 36		





Year 9 Linear Relationships



eBOOKS
videos and interactives



Subtopic	Teacher tools Interactives, videos	Scaffolded learning: printables	Practice and fluency (written)	Practice and fluency (Mathletics activities online)
Intercepts	 Intercepts	 eBook pages 2	 eBook pages 4-5	
Gradient-Intercept for a line		 eBook pages 3	 eBook pages 4-5	
Determining if a point is on a line	 Graphing straight lines	 eBook pages 6	 eBook pages 7-9	
Parallel Lines		 eBook pages 6	 eBook pages 7-9	
Graphing straight lines		 eBook pages 6	 eBook pages 13-17	 Which Straight Line?
Horizontal and Vertical Lines		 eBook pages 12	 eBook pages 13-17	
Using intercepts to graph straight lines		 eBook pages 18	 eBook pages 21-25	
Intersection of lines	 Intersection of straight lines	 eBook pages 19-20	 eBook pages 21-25	



Year 9 Coordinate Geometry



eBOOKS
videos and interactives



Subtopic	Teacher tools Interactives, videos	Scaffolded learning: printables	Practice and fluency (written)	Practice and fluency (Mathletics activities online)
System of Axes & Co-ordinates	System of axes Co-ordinates Co-ordinate Pairs	eBook pages 2	eBook pages 4-5	Ordered Pairs
Distance between points on the same Horizontal or Vertical line.	Horizontal and vertical distance between points	eBook pages 3	eBook pages 4-5	
Distance between any two points	Distance between points	eBook pages 3	eBook pages 4-5	Distance Between Two Points
Distance Formula		eBook pages 6	eBook pages 8-10	
The midpoint of a line		eBook pages 7	eBook pages 8-10	Midpoint by Formula
Gradient of a line		eBook pages 11	eBook pages 15-18	Gradient
Gradient from the angle		eBook pages 12-13	eBook pages 15-18	
Positive and Negative Slope		eBook pages 14	eBook pages 15-18	





Year 10 Straight Lines



eBOOKS

videos and interactives



Subtopic	Teacher tools Interactives, videos	Scaffolded learning: printables	Practice and fluency (written)	Practice and fluency (Mathletics activities online)
Remembering Gradient	Gradient introduction Gradient Calculations Gradient introduction	eBook pages 2	eBook pages 4-6	
Gradient-Intercept form		eBook pages 3	eBook pages 4-6	Equation of a Line 1
General form of a line	Gradient Calculations	eBook pages 3	eBook pages 4-6	
Intercepts		eBook pages 7	eBook pages 10-13	
Finding an equation from intercepts		eBook pages 8	eBook pages 10-13	
Using an equation to draw a line		eBook pages 9	eBook pages 10-13	
Finding an equation from any two points	Equation of straight line Equation of a straight line	eBook pages 14	eBook pages 16-19	Equation of a Line 2
Finding an equation from a point and gradient		eBook pages 15	eBook pages 16-19	Equation of a Line 3
Parallel Lines		eBook pages 20	eBook pages 23-28	Are they Parallel?
Perpendicular lines	Perpendicular lines	eBook pages 21	eBook pages 23-28	Are they Perpendicular?