

# Year 9

## Half Term 1: Graphs and Proportions

What will I be working on this half term?

1. Coordinates and graphs
2. Proportion
3. Standard form

<b>PINS 1</b>	
<b>PINS 2</b>	

<b>Peer assessment</b>	
<b>Self assessment</b>	

Pre-learning assessment score (%)			
Part 1	Part 2	Part 3	Part 4

### UNIT 1 Coordinates

<b>HELP!</b>	MM:A: C : Coordinates 1	
<b>PRACTICE</b>	MM:A: C: Coordinates 2, midpoint 1	
<b>CHALLENGE!</b>	MM:A: C: Midpoint 2, 3d coordinates	
<b>PLAY</b>	<b>Nrich:</b> Point in between or coordinate patterns	

### UNIT 2 Linear Graphs

<b>HELP!</b>	MM:A: G : Plotting graphs 1, 2	
<b>PRACTICE</b>	MM:A: G : Gradient and intercept, $y = mx + c$	
<b>CHALLENGE!</b>	MM:A: G : Plotting graphs 3,4, equation of a line 2,3	
<b>PLAY</b>	<b>Nrich:</b> Enclosing squares,	

Post learning assessment

### UNIT 3 Proportion

<b>HELP!</b>	MM:N:RP: Modelling ratio	
<b>PRACTICE</b>	MM:N:RP: Scaling and rate problems, Proportion introduction, unitary method	
<b>CHALLENGE!</b>	MM:N:RP: Convert compound measures, direct/inverse proportions	
<b>PLAY</b>	<b>Nrich:</b> Mixing paints, mixing more paints	

### UNIT 4 Scales and Standard Form

<b>HELP!</b>	MM: N: Multiply and divide mental: Multiply by 10, and 100	
<b>PRACTICE</b>	MM:N: Standard form: Standard form large, standard form small	
<b>CHALLENGE!</b>	MM:N: Standard form: Standard form calculations	
<b>PLAY</b>	<b>Nrich:</b> Power countdown	