

Lesson 9: Inequalities	
Aim: Solving graphical inequalities.	
Resources:	
<ul style="list-style-type: none"> • Inequality snap: Photocopy the worksheet onto card (for best results laminate afterwards)– 1 set for each pair/group. • Regions satisfying an inequality PowerPoint 	
Teacher-led session	
Slide 1	Question: what equation can we give to the x-axis? Prompt students by asking for the coordinates of each red-point given.
Slide 2	Question: what equation can we give to the y-axis? Prompt students by asking for the coordinates of each red-point given.
Slide 3	Drawing the line $y = x + 2$ then testing coordinates to determine the region $y \leq x + 2$
Slide 4	
Slide 5	Drawing the line $x + y = 6$ then testing coordinates to determine the region $x + y \geq 6$
Slide 6	10 minutes [partner work] What are the equations of the lines 1 to 4, and how can we describe the white region?
Group activity: Partner Snap (20 minutes)	
One student has the cards with inequalities; the other student has cards with coordinates. Students play against one another, 'snapping' when the given coordinate satisfies the inequality.	
Group activity (20 minutes)	
Students pick three inequality cards, and then draw and shade the region that satisfies the inequalities.	