


Subject	Year	Month		
Mathematics	10	June		
Topic:				
Solving inequalities (linear and quadratic)			4 lessons	
Content (Intent)				
Prior Learning Year 10 Solving quadratics May		Future Learning Year 11 Sketching algebraic graphs October Year 12 Pure Chapter 3 Equations and inequalities		
Objectives <ul style="list-style-type: none"> Show inequalities on number lines; Write down whole number values that satisfy an inequality; Solve simple linear inequalities in one variable, and represent the solution set on a number line; Solve two linear inequalities in x, find the solution sets and compare them to see which value of x satisfies both solve linear inequalities in two variables algebraically; Solve quadratic inequalities Represent the solution set for inequalities using set notation, i.e. curly brackets and 'is an element of' notation; for problems identifying the solutions to two different inequalities, show this as the intersection of the two solution sets, i.e. solution of $x^2 - 3x - 10 < 0$ as $\{x: -3 < x < 5\}$; Use the correct notation to show inclusive and exclusive inequalities. 				
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)		
Emphasise the importance of leaving their answer as an inequality (and not changing it to =). Students can leave their answers in fractional form where appropriate. Set notation is a new topic.		End of half term no End of Year Mocks in November yr11		
		How can parents help at home?		
		MathsWatch clips (Qualification KS4)		
Further reading/discussion				
Reading / Enrichment	Literacy	Numeracy Links	Careers Links Engineer Scientist Statistician Business Owner Accountancy & Finance	