


Subject	Year	Month	
Mathematics	9	June	
Topic:			
PYTHAGORAS			5 LESSONS
Content (Intent)			
Prior Learning Earlier in KS3 : <ul style="list-style-type: none"> - shapes, angles, sides - squaring - root - rearranging formulae - coordinates 		Future Learning The next topic after this is Trigonometry Pythagoras and Trigonometry will both come back in Year 10 and Year 11	
Objectives			
MAIN	FURTHER	EXTRA	
<ul style="list-style-type: none"> • Understand, recall and use Pythagoras' Theorem • Calculate the length of the hypotenuse in a right-angled triangle (including decimal lengths and a range of units); • Find the length of a shorter side in a right-angled triangle; 	<ul style="list-style-type: none"> • Given three sides of a triangle, justify if it is right-angled or not; • Calculate the length of a line segment AB given pairs of coordinates; • Apply Pythagoras when solving geometric problems 	<ul style="list-style-type: none"> • Give an answer to the use of Pythagoras' Theorem in surd form; • Use Pythagoras Theorem in 3D shapes 	
Pedagogical notes (implementation)		How will understanding be assessed & recorded (Impact)	
<ul style="list-style-type: none"> • Drawing the squares on the three sides will help when deriving the rule. • Scale drawings are not acceptable. • Calculators need to be in degree mode. 		BAM task – Pythagoras' Theorem This topic will be part of the revision list for the Year 10 October assessment	
		How can parents help at home?	
		MathsWatch clips (Qualification GCSE) 150a, 150b, 150c, 217	
Further reading/discussion			
Reading / Enrichment https://mathshistory.st-andrews.ac.uk/Biographies/Pythagoras/ Pythagoras: His Lives And The Legacy Of A Rational Universe The Philosophy Book Lif of Pythagoras	Literacy right-angled triangle, hypotenuse, square, root, surd	Numeracy Links	Careers Links https://careertrend.com/info-8466810-jobs-use-pythagorean-theorem.html Management, agriculturist, surveyor, cartographer, production worker, geologist, sailor, engineer,