Unit 6c: Pythagoras' Theorem and Trigonometry	**Year 9 Road Map**

In this unit you will learn about number. The aims are as follows:

LG1: Knowledge **LG2**: Application **LG3**: Skills

S/N	Level	Learning Goals/Outcomes/Content	Dr Frost Videos	R	A	G
		6c) Pythagoras' Theorem and Trigonometry				
1	SCE	Understand, recall and use Pythagoras' Theorem in 2D;	288a 288b			
2	CE	Given three sides of a triangle, justify if it is right-angled or not;	288c			
3	SCE	Calculate the length of the hypotenuse in a right-angled triangle (including decimal lengths and a range of units);	228a			
4	SCE	Find the length of a shorter side in a right-angled triangle;	228b			
5	CE	Calculate the length of a line segment *AB* given pairs of points;	289a			
6	CE	Give an answer to the use of Pythagoras' Theorem in surd form;	338a			
7	CE	Understand, use and recall the trigonometric ratios sine, cosine and tan, and apply them to find angles and lengths in general triangles in 2D figures;	321e			
8	CE	Use the trigonometric ratios to solve 2D problems;	321b			
9	CE	Find angles of elevation and depression;	322c 412c			
10	E	Know the exact values of sin θ and cos θ for θ = 0°, 30°, 45°, 60° and 90°; know the exact value of tan θ for θ = 0°, 30°, 45° and 60°.	412a			

Student's comments and questions