YEAR 11 – MATHEMATICS (Week 3) 2021-2022

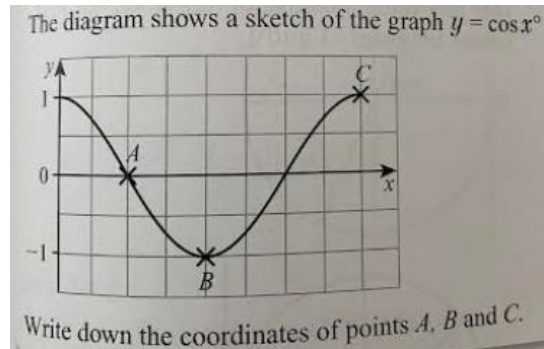|	
Subject	Mathematics
Class/ Section	Year 11
Week	12th September to 16th September
Work send to students by	Google classroom
Total number of lessons per week	5
Unit 13	More Trigonometry
Key Vocabulary	Reference angle, asymptote
Lessons 1,2,3,4,5 –Live Zoom lesson along with face to face instruction for students present on a particular day **Work will be assigned in Google classroom which will be matched to the students ability.**	**Specific Learning objectives** • **To do problems involving Pythagoras and Trigonometry in 3D** • **To know the graph of Sine, Cosine and Tangent function.** • **To draw and understand the properties of Sine, Cosine and Tan graphs** • **To find the – Sine value, Cosine Value and Tan value of any angle.** **Specific Intended Learning Outcomes** **By the end of the lesson students will be able to** • **To do problems involving Pythagoras and Trigonometry in 3D** • **To know the graph of Sine, Cosine and Tangent**

	function. • **To draw and understand the properties of Sine, Cosine and Tan graphs** • **To find the – Sine value, Cosine Value and Tan value of any angle.**
Tasks/Activities	The teacher will introduce the concepts using PPT. Complete the questions assigned from the text book and the worksheet . Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
Assessment Criteria/ Essential questions	1. The diagram shows a sketch of the graph $y = \cos x°$ Write down the coordinates of points A, B and C. 2. The graph of $y = \sin x$ repeats every 360° in both directions. a Sketch the graph of $y = \sin x$ for $0° \leqslant x \leqslant 540°$. b Use your sketch to find 　i $\sin 540°$　　ii $\sin 450°$. c The exact value of $\sin 60°$ is $\frac{\sqrt{3}}{2}$. Write down the exact value 　i $\sin 420°$　　ii $\sin 480°$. Assessment objectives expected by the board with respect to the above questions are listed below. AO1: Use and apply standard techniques AO2: Reason, interpret and communicate mathematically AO3: Solve problems within mathematics and in other contexts.
Resources	**Text Book : Edexcel GCSE (9- 1)Mathematics Higher Student Book** **PPT and worksheet**