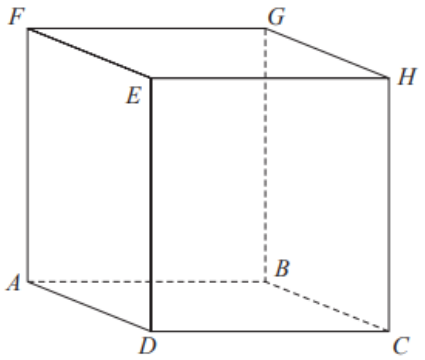
مدرسة القديسة مريم الكاثوليكية الثانوية - دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

YEAR 11 – MATHEMATICS (Week 2) 2021-2022

Subject	**Mathematics**
Class/ Section	**Year 11**
Week	**5th September to 9th September**
Work send to students by	**Google classroom**
Total number of lessons per week	**5**
Unit 13	**More Trigonometry**
Key Vocabulary	**Plane, diagonal**
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 use lower and upper bound in calculations.** • **To use Pythagoras and Trigonometry in 3D** • **To do problems involving real life situation** **Specific Intended Learning Outcomes** **By the end of the lesson students will be able to** • **To find lower and upper bounds in calculations.** • **To use Pythagoras and Trigonometry in 3D** • **To do problems involving real life situation**

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. *ABCDEFGH* is a cuboid.  $AB = 7.3$ cm $CH = 8.1$ cm Angle $BCA = 48°$ Find the size of the angle between *AH* and the plane *ABCD*. Give your answer correct to 1 decimal place. 2. Jackson is trying to find the density, in g/cm^3, of a block of wood. The block of wood is in the shape of a cuboid. He measures the length as 13.2 cm, correct to the nearest mm the width as 16.0 cm, correct to the nearest mm the height as 21.7 cm, correct to the nearest mm He measures the mass as 1970 g, correct to the nearest 5 g. By considering bounds, work out the density of the wood. Give your answer to a suitable degree of accuracy. You must show all your working and give a reason for your final answer. 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**