مدرسة القديسة مريم الكاثوليكية الثانوية - دبي

ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

YEAR 12 – PURE MATHEMATICS (Week 4)-2021-2022

Subject	**Mathematics (PURE)**
Class/ Section	**Year 12 – Batch 1, 2 and 3**
Week	**19th September to 23rd September**
Work send to students by	**Google classroom**
Total number of lessons per week	**3**
Units	**Pure Math** **Straight line graphs (chapter 5-section 5.3,5.4, 5.5)** **Circles (chapter 6- section 6.1,6.2)**
Lessons 1,2,3 –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 student's ability.**	**Specific Learning objectives** - Know and use the rules for parallel and perpendicular gradients. -Solve length and area problems on coordinate grids. -Use straight line graphs to construct mathematical models. -Find the midpoint of a line segment -Find the equation of perpendicular bisector to a line segment -Know how to find the equation of a circle.

Tasks/Activities	**Specific Intended Learning Outcomes** - Students will be able to know and use the rules for parallel and perpendicular gradients. - Students will be able to solve length and area problems on coordinate grids. - Students will be able to use straight line graphs to construct mathematical models. -Students will be able to find the midpoint of a line segment. -Students will be able to find the equation of perpendicular bisector to a line segment. -Students will be able to know how to find the equation of a circle. The Teacher will recall using the rules for parallel and perpendicular gradients. Solving length and area problems on coordinate grids. The teacher will introduce to use straight line graphs to construct mathematical models. The teacher will recall finding the midpoint of a line segment, to find the equation of perpendicular bisector to a line segment. The Teacher will introduce to find the equation of a circle. Students will explore other examples and the implementation of straight line graphs in real life. Complete the questions assigned from the pure mathematics 1 text book in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
Assessment Criteria/ Essential questions	Essential Question that are according to the Pearson Edexcel specification e. g Core Mathematics C12 Advanced Subsidiary October 2017 question 10 For example, assessment objectives expected by the board with respect to the above question is listed below. AO1: select and correctly carry out routine procedures AO2: use mathematical language and notation correctly AO3: translate problems in mathematical and non-mathematical contexts into mathematical processes
Resources	1.Edexcel Pure Mathematics Book 1 Textbook 2.Ppt on the topic. 3.https://www.physicsandmathstutor.com 4.https://www.drfrostmaths.com/ 5.https://www.examsolutions.net/