



مدرسة القديسة مريم الكاثوليكية الثانوية - دبي
ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

YEAR 12 – PURE MATHEMATICS (Week 3)-2021-2022

Subject	Mathematics (PURE)
Class/ Section	Year 12 – Batch 1, 2 and 3
Week	12th September to 16th September
Work send to students by	Google classroom
Total number of lessons per week	3
Units	Pure Math Graph and transformations(chapter 4) Straight line graphs (chapter 5)
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.	<u>Specific Learning objectives</u> -Translate graphs -Stretch graphs -Transform graphs of unfamiliar functions -Calculate the gradient of a line joining a pair of points. -Understand the link between the equation of a line and its gradient and intercept <u>Specific Intended Learning Outcomes</u> -Students will be able to translate graphs - Students will be able to stretch graphs - Students will be able to Transform graphs of unfamiliar functions - Students will be able to calculate the gradient and equation of the line.

Tasks/Activities

The Teacher would introduce translating graphs, stretching graphs to quadratic, cubic, reciprocal functions .

Applying transformations to unfamiliar functions by considering how specific points and features are transformed.

Students will explore other examples and interpret each part of the Sketch signifies.

The Teacher would introduce gradient and equation of the straight line.

**Assessment Criteria/
Essential questions**

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.

Essential Question that are according to the Pearson Edexcel specification

e. g pure Mathematics P1

new specification January 2019 question 8

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. Edexcel Statistics & Mechanics book 1 textbook
3. Ppt on the topic.
4. <https://www.physicsandmathstutor.com>