



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

YEAR 8 – MATHEMATICS (Week 1)-2021-2022

Subject	Mathematics
Class/ Section	Year 8 – Batch A, B, C, D, E, F
Week 1	5th September to 9th September
Work send to students by	Google classroom
Total number of lessons per week	5
Unit/Topic (Delta2)	– UNIT 1.1 : Factors and powers
Key Vocabulary	Prime factor decomposition, product, multiples and factors
Lessons 1,2,3,4 and 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.	<p><u>Specific Learning objectives</u></p> <ul style="list-style-type: none">- Review how to find the prime factor decomposition of a number- To use prime factor decomposition to find the HCF of 2 numbers- To use prime factor decomposition to find the LCM of 2 numbers- Understanding and Solving word problem in HCF and LCM- Understanding and Solving word problem in HCF and LCM <p><u>Specific Intended Learning Outcomes</u></p> <ul style="list-style-type: none">- Students will be able to find the prime factor decomposition of a number- Students will be able to use prime factor decomposition to find the HCF of 2 numbers- Students will be able to use prime factor decomposition to find the LCM of 2 numbers- Students will be able to understand and solve word problem in HCF and LCM.

Tasks/Activities

- Students will be able to understand and solve word problem in HCF and LCM.

The Teacher would introduce how to use the product of prime factors to work out HCFs and LCMs in this lesson. Students will explore other examples for HCFs and LCMs that can be used in modelling of real-life situations, such as the satellite orbits

Complete the questions assigned from the Delta 2 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 KS3 Progress Maths

e.g 1) How to find the LCM and HCF of two numbers using the prime factor decomposition method 84 and 126.

2) Six bells commence tolling together and toll at intervals of 2, 4, 6, 8 10 and 12 seconds respectively. In 30 minutes, how many times do they toll together ?

3) 3 different pieces of iron are of varying length are given to a student which are 44cm, 22 cm,55 cm respectively.He has to form rods of maximum length such that no iron waste is left.

Find the maximum length of such rod.

Assessment objectives 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. KS3 Maths Progress Delta 2 textbook
2. Ppt and Videos related to the topic