مدرسة القديسة مريم الكاثوليكية الثانوية - دبي



## ST. MARY'S CATHOLIC HIGH SCHOOL, DUBAI

## YEAR 8 - MATHEMATICS (Week 5)-2021-2022

Subject	Mathematics
Class/ Section	Year 8 – Batch A, B, C, D, E, F
Week 5	26 <sup>th</sup> September to 30 <sup>th</sup> September
Work send to students by	Google classroom
Total number of lessons per week	5
Unit/Topic	<ul> <li>Delta 3 UNIT 1.3: Standard Form</li> <li>Delta 2 UNIT 2.1: Working with powers</li> <li>Delta 3 UNIT 2.2: Expanding</li> </ul>
Key Vocabulary	Equations, Expand, Identities, , difference of two squares
Lessons 1,2,3,4 and 5 –Live Zoom lesson along with face to face instruction for students present on a particular day	<ul> <li>Specific Learning objectives</li> <li>To write numbers using standard form. To learn Ordering numbers written in standard form.</li> <li>To simplify expressions involving powers and brackets.</li> </ul>
Work will be assigned in Google classroom which will be matched to the students' ability.	<ul> <li>To Multiply pairs of brackets</li> <li>Square a linear expression.</li> <li>Use quadratic identities.</li> </ul>
	Specific Intended Learning Outcomes
	By the end of the Lesson Students will be able to
	- Understand, Order and write numbers using standard form.
	- Simplify simple expressions involving brackets and powers, by collecting like terms

	<ul> <li>Multiply out brackets involving positive and negative terms</li> <li>Square a linear expression and collect like terms</li> <li>Derive and use identities for the product of two linear expressions of the form</li> </ul>
Tasks/Activities	Scientists describing the universe need to write down very large numbers in a way that is easy to read. Write up 2320, $2.52 \times 10^2$ , $0.02 \times 10^2$ , $21.5 \times 10^{23}$ , $2.5 \times 5^2$ and explain that only one of these expressions is in standard form.
	write up the two original expressions added together, and ask students to simply it; for example, $4x^3 + 2x^2 - x^3 + 3y^3 - 2y^2 + y^2$ (= $3x^3 + 2x^2 + 3y^3 - y^2$ ). Establish that like terms are those with the same unknown, raised to the same power.
	Explain that the negative sign changes the sign of each term within the brackets (you are multiplying by $-1$ ). For example: $6(p + 2) - 2(p + 1) = 6p + 12 - (2p + 2) = 6p + 12 - 2p - 2 = 4p + 10$
	To Explore What is the area of a rectangle that $(x + 2)$ by $(x - 2)$ ?
	Complete the questions assigned from the Delta 2 and Delta 3 text book in the notebook. Students will be work out with Zoom lesson to encourage collaborative learning and submit the Assignment in GC.
	Essential Question that are according to the KS3 Progress Maths
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1. Ppt and Videos related to the topic
2. KS3 Maths Delta 2 and Delta 3 Active Learn Course
3. Assignment