

YEAR 13 – MATHEMATICS (Term 2 Week 4)-2020-2021

Subject	Mathematics
Class/ Section	Year 13 – Batch A, B and C
Week	21st February to 25th February
Work send to students by	Google classroom
Total number of lessons per week	3
Units	-Chapter 8 book 2-Further Kinematics (Continuation)
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 students ability.	<p>Learning objectives</p> <ul style="list-style-type: none">- To apply vectors for displacement, velocity and acceleration when using vector equations of motion.- To use vector methods while solving questions on projectiles .- To use calculus to solve problems involving motion in one or two dimensions involving variable acceleration. <p><u>Intended Learning Outcomes</u></p> <ul style="list-style-type: none">- Students will be able to split a projectile motion question given using vectors into its horizontal and vertical motion and use their knowledge of projectiles in solving them.- Students will be able to apply differentiation and integration in solving questions involving variable acceleration in one dimension.- Students will be able to apply differentiation and integration in solving questions involving variable acceleration in two dimensions given in i and j components.

Tasks

Complete the questions assigned from the Mechanics 2 text book on Further Kinematics involving vectors (EX 8B,8C and 8D) in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.

Resources

1. Edexcel Statistics & Mechanics book 2 textbook
2. <https://www.physicsandmathstutor.com>