

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

Subject	Mathematics
Class/ Section	Year 13 – Batch A, B and C
Week	20th September to 24th September
Work send to students by	Google classroom
Total number of lessons per week	3
Units	– Forces and motion
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.	Learning objectives – <ul style="list-style-type: none">- To draw force diagrams and calculate resultant forces- Understand and use Newton’s first law- Calculate resultant forces by adding vectors- Understand and use Newton’s second law $F= ma$
Tasks	<u>Intended Learning Outcomes</u> <ul style="list-style-type: none">-Students will be able to draw a force diagram indicating the various forces acting on a particle.- Students will be able to deduce that when a particle is moving with constant velocity it is in dynamic equilibrium- Students will be able to work with forces given in i,j notation and find resultant forces and their magnitudes.-Students will be able to apply Newton’s second law to particles moving horizontally or vertically. Complete the questions assigned from the Mechanics 1 text book on forces and motion(Ex10A-10 D) in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.

Resources

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