YEAR 13 – MATHEMATICS (Week 6)-2020-2021

Subject	Mathematics
Class/ Section	Year 13 – Batch A, B and C
Week	4th October to 8th October
Work send to students by	Google classroom
Total number of lessons per week	3
Units	– **Chapter 11-Variable acceleration**
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.** **Tasks**	Learning objectives – - To understand that displacement, velocity and acceleration may be given as functions of time - To use differentiation to solve kinematics problems - To use calculus to solve problems involving maxima and minima - To use integration to solve kinematics problems. **Intended Learning Outcomes** -Students will be able to deduce that when displacement is a function of time then the velocity would be found by differentiating the expression for displacement with respect to time. - Students will be able to sketch as velocity time graph when velocity is a function of time. - Students will be able to apply their knowledge of maxima and minima to solve questions where acceleration is zero can be viewed as particle moving with maximum velocity. -Students will be able to apply their knowledge of definite integrals to find the total distance travelled in a given interval.

Resources	Complete the questions assigned from the Mechanics 1 text book on forces and motion(Ex11A-11 D) in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning. 1. Edexcel Statistics& Mechanics book 1 textbook 2. https://www.physicsandmathstutor.com