

YEAR 13 – MATHEMATICS (Week 10)-2020-2021

Subject	Mathematics
Class/ Section	Year 13 – Batch A, B and C
Week	1st November to 5th November
Work send to students by	Google classroom
Total number of lessons per week	3
Units	– Chapter 5 book 2-Forces and Friction(Completion) -Chapter 6 book 2- Projectiles
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 be able to under limiting equilibrium and F_{MAX}.- To solve problems on dynamics involving friction- To solve problems involving projectile motion of particles projected horizontally. <p><u>Intended Learning Outcomes</u></p> <ul style="list-style-type: none">- Students will be able to apply their knowledge of resolving forces to find the normal contact force for any particle moving on a horizontal surface and hence find maximum frictional force-Students will be able to resolve any forces acting on a particle on an inclined plane and find R and hence find maximum frictional force.- Students will be able to solve problems on dynamics using friction and applying equation of motion.- Students will be able to consider the horizontal and vertical motion of the projectile and use it to find horizontal range and time of flight.

Tasks

Complete the questions assigned from the Mechanics 2 text book on resolving forces and solving problems on Dynamics(Ex5C, Mixed exercise and EX 6A) 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>