

**YEAR 13 – MATHEMATICS (Week 7)-2020-2021**

<b>Subject</b>	<b>Mathematics</b>
<b>Class/ Section</b>	<b>Year 13 – Batch A, B and C</b>
<b>Week</b>	<b>11<sup>th</sup> October to 15<sup>th</sup> October</b>
<b>Work send to students by</b>	<b>Google classroom</b>
<b>Total number of lessons per week</b>	<b>3</b>
<b>Units</b>	<b>– Chapter 3 book 2-Moments</b>
<b>Lessons 1,2,3 –Live Zoom lesson along with face to face instruction for students present on a particular day</b>  <b>Work will be assigned in google classroom which will be matched to the students ability.</b>	<p>Learning objectives –</p> <ul style="list-style-type: none"><li>- To Calculate the turning effect of a force applied to a rigid body.</li><li>- To Calculate the resultant moment of a set of forces acting on a rigid body.</li><li>- To solve problems involving uniform rods in equilibrium.</li></ul> <p><b><u>Intended Learning Outcomes</u></b></p> <ul style="list-style-type: none"><li>-Students will be able to deduce the sense of rotation of a force about a given point.</li><li>- Students will be able to calculate the moment of a force when the perpendicular distance is not given. And also deduce when a force has no turning effect.</li><li>- Students will be able to apply their knowledge of conditions for equilibrium and solve problems involving uniform rods where a particle needs to be placed for the rod to be balanced in a horizontal position.</li></ul>

**Tasks**

Complete the questions assigned from the Mechanics 2 text book on forces and motion(Ex4A-4 C) 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>