

**YEAR 13 – MATHEMATICS (Term 2 Week 2)-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>7<sup>th</sup> February to 11<sup>th</sup> February</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 7 book 2- Application of Forces</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 understand and solve problems involving limiting equilibrium when resting on pegs</li><li>- To solve statics problems involving rods and finding reaction at the hinge.</li></ul> <p><b><u>Intended Learning Outcomes</u></b></p> <ul style="list-style-type: none"><li>- Students will be able to resolve forces in appropriate two perpendicular directions and take moments about a suitable point.</li><li>- Students will be able to use the fact that frictional force takes its maximum value when a particle is in limiting equilibrium.</li><li>- Students will be able to find the magnitude and direction of the reaction at the hinge.</li></ul>

**Tasks**

Complete the questions assigned from the Mechanics 2 text book on Statics and limiting equilibrium application of forces (EX7D and EX 7E) in the notebook. Students will be put in breakout rooms during Zoom lesson to encourage collaborative learning.

**Resources**

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