

## YEAR 12 – MATHEMATICS (Week 5)

<b>Subject</b>	Mathematics (Pure Math & Stat)
<b>Class/ Section</b>	Year 12 – Batch 1, 2 and 3
<b>Week</b>	27 <sup>th</sup> September to 1 <sup>st</sup> October 2020
<b>Work send to students by</b>	Group email / Google classroom / Zoom
<b>Total number of lessons per week</b>	6
<b>Units</b>	<p><b>PURE MATH- Ch 4 (Graphs and transformations)</b></p> <p style="padding-left: 40px;"><b>4.5- Translating graphs</b></p> <p style="padding-left: 40px;"><b>4.6 –Stretching graphs</b></p> <p style="padding-left: 40px;"><b>4.7 -Transforming functions</b></p> <p><b>STATISTICS – Ch2</b> (Measures of location and spread)</p>
<b>Lessons 1 –Live Zoom lesson</b>	<p><b>Ch 4(Graphs and transformations)</b></p> <p style="padding-left: 40px;"><b>4.5 -Translating graphs</b></p> <p style="padding-left: 40px;"><b>4.6 -Stretching graphs</b></p> <p><b><u>Learning objective</u></b> – To sketch the translating graph , the Stretching graph</p> <p><b><u>Intended Learning Outcomes</u></b></p> <p>-Students will be able to transform the graph of a function by adding or subtracting a constant outside the function translates a graph vertically, inside the function translates the graph horizontally.</p> <p>-Students will be able to stretching the graph by multiplying by a constant outside the function stretches the graph vertically, inside the function stretches the graph horizontally.</p>
<b>Tasks</b>	To complete the questions assigned from the Textbook (pdf) in their notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.
<b>Resources</b>	1. Power point presentation



<p><b>Tasks</b></p> <p><b>Resources</b></p>	<p>lesson to encourage collaborative learning.</p> <ol style="list-style-type: none"> <li>1. Power point presentation</li> <li>2. Statistics and Mechanics Year 1 / AS</li> <li>3. <a href="https://www.physicsandmathstutor.com/">https://www.physicsandmathstutor.com/</a></li> <li>4. <a href="https://www.drfrostmaths.com/">https://www.drfrostmaths.com/</a></li> <li>5. <a href="https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/">https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/</a></li> </ol>
<p><b>Lessons 4 –Live Zoom lesson</b></p> <p><b>Tasks</b></p> <p><b>Resource</b></p>	<p><b>2.3 – Measure of spread</b></p> <p><b><u>Learning objective</u></b> – To calculate measures of spread such as range, interquartile range and interpercentile range.</p> <p><b><u>Intended Learning Outcomes</u></b></p> <p>--Students will be able to know why we use the measure of spread for a given data and where it is used in real life and to choose the best suitable measure of spread, inter-quartile range or inter-percentile range.</p> <p>To complete the questions assigned from the Textbook (pdf) in their notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.</p> <ol style="list-style-type: none"> <li>1. Power point presentation</li> <li>2. Statistics and Mechanics Year 1 / AS</li> <li>3. <a href="https://www.physicsandmathstutor.com/">https://www.physicsandmathstutor.com/</a></li> <li>4. <a href="https://www.drfrostmaths.com/">https://www.drfrostmaths.com/</a></li> <li>5. <a href="https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/">https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/</a></li> </ol>
<p><b>Lessons 5 –Live Zoom lesson</b></p> <p><b>Tasks</b></p> <p><b>Resource</b></p>	<p><b>2.4 – Variance and Standard Deviation</b></p> <p><b><u>Learning objective</u></b> – To calculate Variance and Standard deviation for the given data.</p> <p><b><u>Intended Learning Outcomes</u></b></p> <p>--Students will be able to know the meaning of variance and standard deviation and how it is useful in finding measure of spread and to know why standard deviation is a better measure of spread.</p> <p>To complete the questions assigned from the Textbook (pdf) in their notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.</p> <ol style="list-style-type: none"> <li>1. Power point presentation</li> <li>2. Statistics and Mechanics Year 1 / AS</li> <li>3. <a href="https://www.physicsandmathstutor.com/">https://www.physicsandmathstutor.com/</a></li> <li>4. <a href="https://www.drfrostmaths.com/">https://www.drfrostmaths.com/</a></li> <li>5. <a href="https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/">https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/</a></li> </ol>

<b>Lessons 6</b>	<b><u>Learning objective</u></b>
<b>Google Classroom</b>	<b>To do problems involving Ch 4(Graphs and transformations)</b>
	<b><u>Intended Learning Outcome:</u></b>
	<b>By the end of the lesson students will be able to do the problems from the mixed exercise of Chapter 4– Graphs and transformations, from pages 82 to 84.</b>
<b>Task</b>	<b>Work will be assigned in Google Classroom.</b>
<b>Resources</b>	<b>Text Book : Pure Mathematics Year 1 / AS</b>