

YEAR 12 – MATHEMATICS (Week 33)

Subject	Mathematics (Pure Math & Stats)
Class/ Section	Year 12 – Batch 1, 2 and 3
Week	2 nd May to 6 th May 2021
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	6
Units	<p>PURE MATH- Ch14 (Exponentials and logarithms) 14.7 Working with natural logarithms 14.8 Logarithms and non-linear data (revision)</p> <p>STATISTICS – Book 2 – Ch 3 (The Normal Distribution)</p>
Lesson1& 2- Live Zoom lesson	<p>PURE MATH- Ch14 (Exponentials and logarithms) 14.7 Working with natural logarithms <u>Learning objective</u> – To describe and use the natural logarithm function.</p> <p><u>Intended Learning Outcomes</u> : Students will be able to use the fact that logarithms are the inverse of exponential functions to solve equations involving powers and logarithms. $e^{\ln x} = x$ and $\ln(e^x) = x$</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>
Tasks	
Resources	<p>Power point presentation</p> <ol style="list-style-type: none"> 1. Pure Mathematics Year 1 / AS 2. https://www.physicsandmathstutor.com/ 3. https://www.drfrostmaths.com/ 4. https://www.examsolutions.net/a-levelmaths/edexcel/edexcel-a-level-maths-past-papers/
Lesson3- Live Zoom lesson	<p>PURE MATH- Ch14 (Exponentials and logarithms) 14.8 Logarithms and non-linear data (revision) <u>Learning objective</u> – To use logarithms to estimate the values of constant in non-linear models .</p> <p><u>Intended Learning Outcomes</u> : Students will be able to use logarithms to manage and explore non-linear trends in data</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>
Tasks	

<p>Tasks</p> <p>Resource</p>	<p>determine whether the mean from one particular sample, \bar{X}, is statistically significant.</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"> 1. Power point presentation 2. Statistics and Mechanics Year 2 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/ 5. https://www.examsolutions.net/a-levelmaths/edexcel/edexcel-a-level-maths-past-papers/
<p>Lessons 6 –GOOGLE CLASS ROOM</p> <p>Tasks</p> <p>Resource</p>	<p>Statistics and Mechanics Year 2</p> <p>To do problems involving the normal distribution.</p> <p>Intended Learning Outcome:</p> <p>By the end of the lesson students will be able to do problems from the Mixed Exercise – Chapter 3 – Questions 3, 5, 9, 11, 17, 22, 24 – From Pages 60 to 63</p> <p>Work will be assigned in Google Classroom.</p> <p>Text Book : Statistics and Mechanics Year 2</p>