

YEAR 12 – MATHEMATICS (Week 31)

Subject	Mathematics (Pure Math & Stats)
Class/ Section	Year 12 – Batch 1, 2 and 3
Week	18th April -22nd April 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) 14.1 Exponential functions 14.2 $y=e^x$ 14.3 Exponential Modelling 14.4 Logarithms STATISTICS – Book 2 – Ch 3 (The Normal Distribution)</p>
Lessons 1 –Live Zoom lesson	<p>PURE MATH- Ch14 (Exponentials and logarithms) 14.1 Exponential functions 14.2 $y=e^x$</p> <p><u>Learning objective</u> : Sketch graphs of the form $y=a^x$, $y=e^x$ Transformations of these graphs. Differentiate e^kx and understand why this result is important.</p> <p><u>Intended Learning Outcomes</u> - Students will be able to sketch graphs of the form $y=a^x$, $y=e^x$ Transformations of these graphs.</p> <p>Students will be able to differentiate the function $y= e^kx$.</p>
Tasks	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.
Resources	<ol style="list-style-type: none"> 1. Power point presentation 2. Pure Mathematics Year 1 / AS 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrstmaths.com/ 5. https://www.examsolutions.net/a-levelmaths/edexcel/edexcel-a-level-maths-past-papers/

Resource	<ol style="list-style-type: none"> 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/
Lessons 6 –GOOGLE CLASS ROOM Tasks Resource	<p>To do problems involving Integration.</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 2 (Conditional Probability). Pages 66 - 67. (Questions 6 to 12)</p> <p>Work will be assigned in Google Classroom.</p> <p>Text Book : Statistics and Mechanics Year 2</p>