

## YEAR 12 – MATHEMATICS (Week 4)

<b>Subject</b>	<b>Mathematics</b>
<b>Class/ Section</b>	<b>Year 12 – Batch A, B and C</b>
<b>Week</b>	<b>13<sup>th</sup> April to 16<sup>th</sup> April</b>
<b>Work send to students by</b>	<b>Group email / Google classroom / Zoom</b>
<b>Total number of lessons per week</b>	<b>6</b>
<b>Units</b>	<b>14.6 – Solving equations using logarithms</b> <b>14.7 – Working with natural logarithms</b> <b>14.8 – Logarithms and Non linear data</b>
<b>Lessons 1 &amp; 2</b>  <b>Task</b>  <b>Resource</b>	<b>14.6 – Solving equations using logarithms</b>  Learning objective – To Solve equations of the form $a^x = b$  Complete the textbook questions.  1. Power point presentation 2. Pure Math Year 1 / AS 3. <a href="https://www.physicsandmathstutor.com/">https://www.physicsandmathstutor.com/</a> 4. <a href="https://www.yumpu.com/en/document/read/12838567/solving-logarithmic-equations-ppt">https://www.yumpu.com/en/document/read/12838567/solving-logarithmic-equations-ppt</a> 5. <a href="https://www.youtube.com/watch?v=Oj4JMk6MnEQ">https://www.youtube.com/watch?v=Oj4JMk6MnEQ</a> 6. <a href="https://www.youtube.com/watch?v=M6f6dANVyxA">https://www.youtube.com/watch?v=M6f6dANVyxA</a>
<b>Lesson 3 &amp; 4</b>  <b>Task</b>	<b>14.7 – Working with natural logarithms</b>  Learning objective – To describe and use the natural logarithm function.  Complete the textbook questions.

<p><b>Resource</b></p>	<ol style="list-style-type: none"> <li>1. Power point presentation</li> <li>2. Pure Math Year 1 / AS</li> <li>3. <a href="https://www.physicsandmathstutor.com/">https://www.physicsandmathstutor.com/</a></li> <li>4. <a href="https://www.slideshare.net/JJkedst/the-exponential-and-natural-log-functions">https://www.slideshare.net/JJkedst/the-exponential-and-natural-log-functions</a></li> <li>5. <a href="https://www.youtube.com/watch?v=Fo0pciptGWs">https://www.youtube.com/watch?v=Fo0pciptGWs</a></li> <li>6. <a href="https://www.youtube.com/watch?v=8Dw2XgNK4LE">https://www.youtube.com/watch?v=8Dw2XgNK4LE</a></li> </ol>
<p><b>Lessons 5 &amp; 6</b></p> <p><b>Task</b></p> <p><b>Resources</b></p>	<p><b>14.8 – Logarithms and Non linear data</b></p> <p>Learning objective – To use logarithms to estimate the values of constants in non – linear models.</p> <p>Complete the textbook questions.</p> <ol style="list-style-type: none"> <li>1. Power point presentation</li> <li>2. Pure Math Year 1 / AS</li> <li>3. <a href="https://www.physicsandmathstutor.com/">https://www.physicsandmathstutor.com/</a></li> <li>4. <a href="https://youtu.be/20BZLvDmDt0">https://youtu.be/20BZLvDmDt0</a></li> <li>5. <a href="https://youtu.be/xH_IWUPUO-g">https://youtu.be/xH_IWUPUO-g</a></li> <li>6. <a href="https://youtu.be/A1H4j97paI4">https://youtu.be/A1H4j97paI4</a></li> </ol>