

YEAR 12 – MATHEMATICS (Week 10)

Subject	Mathematics (Pure Math & Stat)
Class/ Section	Year 12 – Batch 1, 2 and 3
Week	1 st November - 5 th November 2020
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	6
Units	<p>PURE MATH- Ch 7(ALGEBRAIC METHODS)</p> <p>7.1 Algebraic fractions. 7.2 Dividing polynomials. 7.3 The factor Theorem. 7.4-Mathematical proof.</p> <p>STATISTICS – Ch 4 (Correlation) & Ch 5 (Probability)</p> <p>4.1 – Correlation 4.2 – Linear Regression 5.1 – Calculating Probabilities</p>
Lessons 1 –Live Zoom lesson	<p>PURE MATH- Ch 7(ALGEBRAIC METHODS)</p> <p>7.1 Algebraic fractions. 7.2 Dividing polynomials.</p> <p><u>Learning objective</u> –To simplify algebraic fractions using division, To divide a polynomial by a linear expression. Students will be able to use long division to divide a polynomial by a linear expression.</p> <p><u>Intended Learning Outcomes</u> - Students will be able to simplifying algebraic fraction, possible factorise the numerator and denominator and then cancel common factors.</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	<ol style="list-style-type: none"> 1. Power point presentation 2. Pure Mathematics Year 1 / AS 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/ 5. https://www.examsolutions.net/

<p>Lesson 2 - Live Zoom lesson</p> <p>Tasks</p> <p>Resources</p>	<p>. PURE MATH- Ch 7(ALGEBRAIC METHODS)</p> <p>7.3 The factor Theorem.</p> <p><u>Learning objective</u> - Use the factor theorem to factorise a cubic expression.</p> <p><u>Intended Learning Outcomes</u> –</p> <p>-Students will be able to use factor theorem to find simple linear factors of a polynomial.</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 presentation2. Pure Mathematics Year 1 / AS3. https://www.physicsandmathstutor.com/4. https://www.dr frostmaths.com/5. https://www.examsolutions.net/
<p>Lessons 3 –Live Zoom lesson</p> <p>Tasks</p> <p>Resources</p>	<p>PURE MATH- Ch 7(ALGEBRAIC METHODS)</p> <p>7.4-Mathematical proof</p> <p><u>Learning objective</u> –Students will be able construct proof using algebra .</p> <p>-Student will be able to use proof by exhaustion and disproof by counter-example.</p> <p><u>Intended Learning Outcomes</u> - Students will be able to prove a mathematical statement is by deduction. This means starting from known facts or definitions, then using logical steps to reach the desired conclusion.</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 presentation2. Pure Mathematics Year 1 / AS3. https://www.physicsandmathstutor.com/4. https://www.dr frostmaths.com/5. https://www.examsolutions.net/

<p>Resource</p>	<p>lesson to encourage collaborative learning.</p> <ol style="list-style-type: none"> 1. Power point presentation 2. Statistics and Mechanics Year 1 / AS 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/ 5. https://www.examsolutions.net/a-level-maths/edexcel/edexcel-a-level-maths-past-papers/
<p>Lessons 6</p> <p>Google Classroom</p> <p>Task</p> <p>Resources</p>	<p>To do problems involving Measures of Location and spread.</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 4 (Correlation). Pages 66 and 67. Questions: 3, 4, 5 and 7</p> <p>Work will be assigned in Google Classroom.</p> <p>Text Book : Statistics and Mechanics Year 1 / AS</p>