

YEAR 12 – MATHEMATICS Week 43(20th June-24th June 2021)

Subject	Mathematics
Class/ Section	Year 12 – Batch A, B and C
Week	20th June to 24th June 2021
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	6
Units	Pure Mathematics – Year 2 Chapter 4 – Binomial Expansion 4.3– Using partial fraction Chapter 5- Radians 5.1 Radian measure 5.2 Arc length 5.3 Areas of sectors and segments
Lessons 1 &2 Live Zoom lessons	Pure Mathematics – Year 2 Chapter 4 – Binomial Expansion 4.3– Using partial fractions <u>Learning objective</u> – To use partial fractions to expand fractionalexpressions.
Tasks	<u>Intended Learning Outcomes</u> --Students will be able to understand that partial fractions can be used to simplify the expansions of more difficult expressions. They need to understand, while finding the validity of the expansion, if two or moreranges of values of x are involved; they need to go for the intersectionof those ranges.
Resources	To complete the questions assigned from the Textbook (pdf) in their notebook. Students will be put in break out rooms during Zoom lessonsto encourage collaborative learning. 1. Power point presentation 2. Pure Mathematics Year 2 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrstmaths.com/ https://www.examsolutions.net/

<p>Lessons 3 Live Zoom lesson</p> <p>Tasks</p> <p>Resources</p>	<p>Pure Mathematics – Year 2 Chapter 5 – Radians 5.1 Radian measure <u>Learning objective</u> – To convert between degrees and radians and apply this to trigonometric graphs and their transformations. To know the exact values of angles measured in radians.</p> <p><u>Intended Learning Outcomes-</u> Students will be able to convert between degrees and radians and apply this to trigonometric graphs and their transformations and able to know the exact values of angles measured in radians</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"> 5. Power point presentation 6. Pure Mathematics Year 2 7. https://www.physicsandmathstutor.com/ 8. https://www.drfrostmaths.com/ 9. https://www.examsolutions.net/
<p>Lessons 4 Live Zoom lesson</p> <p>Tasks</p> <p>Resources</p>	<p>Pure Mathematics – Year 2 Chapter 5 – Radians 5.2 Arc Length <u>Learning objective</u> – To find arc length using radians.</p> <p><u>Intended Learning Outcomes-</u> Students will be able to find the arc length l of a sector of a circle use the formula $l=r \Theta$, where r is radius of the circle and Θ (theta) is the angle , in radians , contained by the sector.</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. Pure Mathematics Year 2 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/ 5. https://www.examsolutions.net/

<p>Lessons 5 Live Zoom lesson</p> <p>Tasks</p> <p>Resources</p>	<p>Pure Mathematics – Year 2 Chapter 5 – Radians 5.3 Areas of sectors and segments . <u>Learning objective</u> – To find areas of sectors and segments using radians.</p> <p><u>Intended Learning Outcomes-</u> Students will be able to find the area A of a sector of a circle using the formula $A = \frac{1}{2} r^2 \theta$, where r is the radius of the circle and θ is the angle, in radians, contained by the sector.</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. Pure Mathematics Year 2 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrstmaths.com/ 5. https://www.examsolutions.net/
<p>Lessons 6–GOOGLE CLASS ROOM</p> <p>Tasks</p> <p>Resource</p>	<p>To do problems involving Chapter 5 – Radians</p> <p>Intended Learning Outcome: By the end of the lesson students will be able to do problems from the Mixed exercise – Chapter 5 – Radians (5.1 to 5.3)</p> <p>Questions Work will be assigned in Google Classroom.</p> <p>Text Book : Pure Mathematics Year 2</p>