YEAR 12 – MATHEMATICS (Week 5)

Subject	Mathematics (Pure Math &Stat)
Class/ Section	Year 12 – Batch 1, 2 and 3
Week	27 th September to 1 st October 2020
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	6
	PURE MATH- Ch 4 (Graphs and transformations)
	4.5- Translating graphs
Units	4.6 –Stretching graphs
	4.7 - Transforming functions
	STATISTICS – Ch2
	(Measures of location and spread)
Lessons 1 –Live Zoom lesson	Ch 4(Graphs and transformations)
Lessons 1 –Live Zoom lesson	Ch 4(Graphs and transformations) 4.5 -Translating graphs
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Lessons 1 –Live Zoom lesson	Ch 4(Graphs and transformations) 4.5 - Translating graphs 4.6 - Stretching graphs Learning objective – To sketch the translating graph , the Stretching graph
Lessons 1 –Live Zoom lesson	Ch 4(Graphs and transformations) 4.5 - Translating graphs 4.6 - Stretching graphs Learning objective – To sketch the translating graph , the Stretching graph Intended Learning Outcomes
Lessons 1 –Live Zoom lesson	Ch 4(Graphs and transformations) 4.5 - Translating graphs 4.6 - Stretching graphs Learning objective – To sketch the translating graph , the Stretching graph Intended Learning Outcomes -Students will be able to transform the graph of a function by adding or subtracting a constant outside the function translates a graph vertically, inside the function translates the graph horizontally.
Lessons 1 –Live Zoom lesson	 Ch 4(Graphs and transformations) 4.5 - Translating graphs 4.6 - Stretching graphs Learning objective – To sketch the translating graph , the Stretching graph Intended Learning Outcomes Students will be able to transform the graph of a function by adding or subtracting a constant outside the function translates a graph vertically, inside the function translates the graph horizontally. Students will be able to stretching the graph by multiplying by a constant outside the function stretches the graph vertically, inside the function stretches the graph vertically, inside the function stretches the graph vertically.
Lessons 1 –Live Zoom lesson Tasks	 Ch 4(Graphs and transformations) 4.5 - Translating graphs 4.6 - Stretching graphs Learning objective – To sketch the translating graph , the Stretching graph Intended Learning Outcomes Students will be able to transform the graph of a function by adding or subtracting a constant outside the function translates a graph vertically, inside the function translates the graph horizontally. Students will be able to stretching the graph by multiplying by a constant outside the function stretches the graph vertically, inside the function stretches the graph vertically. 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.

	2. Pure Mathematics Year 1 / AS
	3. <u>https://www.physicsandmathstutor.com/</u>
	4. <u>https://www.drfrostmaths.com/</u>
	5. <u>https://www.examsolutions.net/</u>
Lesson 2–Live Zoom lesson	Ch 4(Graphs and transformations)
	4.7 -Transforming functions
	<u>Learning objective</u> $$ To sketch the transforming functions .
	<u>Intended Learning Outcomes</u> - Students will be able to apply transformations to unfamiliar functions byconsidering how specific points and features are transformed.
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.
	1. Power point presentation
	2. Pure Mathematics Year 1 / AS
Resources	3. <u>https://www.physicsandmathstutor.com/</u>
	4. <u>https://www.drfrostmaths.com/</u>
	5. <u>https://www.examsolutions.net/</u>
Lessons 3 –Live Zoom lesson	2.1 – Measures of central tendency
	2.2 – Other measures of location.
	<u>Learning objective</u> – To calculate measures of central tendency such as the mean, median and mode. To calculate measures of location such as percentiles and deciles.
	Intended Learning Outcomes
	Students will be able to Know why is mean, median, mode called measures of central tendency and situations they are used in real life. To Understand that mean median mode is only an estimate for grouped data with class intervals and it helps to draw conclusions from the given data. To choose the best suitable measure of central tendency for a given data. It also helps know why we use the method of interpolation to find median and situations they are used in real life, to understand how quartiles and percentiles help in understanding the data and to draw conclusions from the given data and to choose the best suitable measure, percentiles or deciles for a given data.
	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.
Tasks	1. Power point presentation
	2. Statistics and Mechanics Year 1 / AS
	3. <u>https://www.pnysicsandmatnstutor.com/</u>
Resources	4. <u>https://www.drifostmaths.com/</u> 5. <u>https://www.avemsolutions.not/a_leval</u>
	5. <u>Intps://www.examsolutions.net/a-nevel-</u> maths/aday.cal/aday.cal_a_layal_maths_past_papers/
	matils/edexcel/edexcel-a-level-matils-past-papers/
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Lessons 4 –Live Zoom lesson	2.5 – Measure of spread
	<u>Learning objective</u> – To calculate measures of spread such as
	range, interquartile range and interpercentile range.
	Intended Learning Outcomes
	Students will be able to know why we use the measure of spread
	for a given data and where it is used in real life and to choose the
	best suitable measure of spread, inter-guartile range or inter-
	percentile range.
	To complete the questions assigned from the Textbook (ndf) in their
	notebook Students will be put in break out rooms during Zoom
Tasks	losson to anopuroza collaborativa losrning
	lesson to encourage conaborative learning.
	1. Power point presentation
	2. Statistics and Mechanics Year 1 / AS
	3. <u>https://www.physicsandmathstutor.com/</u>
Resource	4. <u>https://www.drfrostmaths.com/</u>
	5. <u>https://www.examsolutions.net/a-level-</u>
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Lessons 5 –Live Zoom lesson	2.4 – Variance and Standard Deviation
	Learning objective – To calculate Variance and Standard
	deviation for the given data.
	Intended Learning Outcomes
	Students will be able to know the meaning of variance and standard
	deviation and how it is useful in finding measure of spread and to
	know why standard deviation is a better measure of spread.
	To complete the questions assigned from the Textbook (ndf) in their
	notebook Students will be put in break out rooms during Zoom
	lesson to encourage collaborative learning
Tasks	
	1. Power point presentation
	2. Statistics and Mechanics Year 1 / AS
Degenare	3. <u>https://www.physicsandmathstutor.com/</u>
NESOUICE	4. <u>https://www.drtrostmaths.com/</u>
	5. <u>https://www.examsolutions.net/a-ievel-</u> maths/edexcel/edexcel-a-level-maths-past-papers/

Lessons 6	Learning objective
Google Classroom	To do problems involving Ch 4(Graphs and transformations)
	Intended Learning Outcome:
	By the end of the lesson students will be able to do the problems from the mixed exercise of Chapter 4– Graphs and transformations, from pages 82 to 84.
Task	Work will be assigned in Google Classroom.
Resources	Text Book : Pure Mathematics Year 1 / AS