YEAR 12 - MATHEMATICS (Week 3)

Subject	Mathematics(Pure Math &Stat)
Class/ Section	Year 12 – Batch 1, 2 and 3
Week	13 th September to 17 th September 2020
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	6
	PURE MATH- Ch 3(Equations and inequalities), Ch 4(Graphs and transformations)
Units	3.7 – Regions 4.1 – Cubic graphs
	4.2 –Quadratic graphs
	STATISTICS – Ch 1 (Data Collection)
	Ch 3(Equations and inequalities), 3.7 – Regions
Lessons 1 –Live Zoom lesson	Ch 4(Graphs and transformations) 4.1 – Cubic graphs
	Learning objective –Use shading on graphs to identify that satisfy linear and quadratic inequalities.
	-To sketch the graph of a cubic function
	Intended Learning Outcomes
	-Students will be able to use shading on graphs to identify that satisfy linear and quadratic inequalities.

	
Tasks	Students will be able to. sketch cubic graph by finding the roots of the function.
	To complete the questions assigned from the Textbook (pdf) in their
	notebook. Students will be put in break out rooms during Zoom
Resources	lesson to encourage collaborative learning.
	1. Power point presentation
	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>
	Ch 4(Granhs and transformations)
Lessons 2 –Live Zoom lesson	4.2 – Quadratic graphs
	Learning objective –To sketch the graph of a quadratic function
	Intended Learning Outcomes- Students will be able to. sketch quadratic graph by finding the roots of the function.
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	1. Power point presentation
Resources	2. Pure Mathematics Year 1 / AS
	3. https://www.physicsandmathstutor.com/
	A https://www.drfrostmaths.com/
	5. <u>https://www.examsolutions.net/</u>
Lessons 3 –Live Zoom lesson	1.1 – Populations and samples 1.2 – Sampling Learning objective – To understand 'population', 'sample' and census and comment on the advantages and disadvantages of
	each.
	To understand the advantages and disadvantages of simple random sampling, systematic sampling and stratified sampling.
	Intended Learning Outcomes
	Students will be able to
	 Understand the methods of data collection and to use them in making conclusions about the respective area of study. Know what is census and sample and its use in real life.

• Decide the most suitable sampling method and to use the data for further calculations. 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 Resources 2. Statistics and Mechanics Year 1 / AS 3. https://www.dpriostandmathstutor.com/ 4. https://www.dpriostandmathstutor.com/ 4. https://www.dpriostandmathstutor.com/ 5. https://www.examsolutions.net/a-level-maths-past-papers/ ILessons 4 – Live Zoom lesson 1.3 – Non random sampling ILearning objective – To understand the advantages and disadvantages of quota sampling method to be used. - Students will be able to Intended Learning Obtective learning. - Students will be put in break out rooms during Zoom lesson to encourage collaborative learning. 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. Resource 1. Power point presentation 2. Statistics and Mechanics Year 1 / AS - Students will be put in break out rooms during Zoom lesson to encourage collaborative learning. 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		
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weather variables. The uata set consists of weather stations over two		weather variables. The data set consists of weather stations over two
set periods of time.		set periods of time.
Students will be able to answer the questions based on real data in		Students will be able to answer the questions based on real data in
your exam. Some of these questions will be based on weather data		your exam. Some of these questions will be based on weather data

Lesson 6 – Google classroom	Assessment in pure math for 20 marks. Questions are assigned in Google classroom and students are monitored in Zoom.
Resource	 Power point presentation Statistics and Mechanics Year 1 / AS <u>https://www.physicsandmathstutor.com/</u> <u>https://www.drfrostmaths.com/</u> <u>https://www.avamsolutions.pat/a_level</u>
Tasks	from the Large data set provided by Edexcel. The relevant extractfrom the data set will be provided.To complete the questions assigned from the Textbook (pdf) in theirnotebook. Students will be put in break out rooms during Zoomlesson to encourage collaborative learning.