YEAR 13 – MATHEMATICS-Pure (Week 2)

Subject	**Mathematics**
Class/ Section	**Year 13 – Batch A, B and C**
Week	**6th September to 10th September 2020**
Work send to students by	**Group email / Google classroom / Zoom**
Total number of lessons per week	**3**
Units	**PURE MATH- Ch 13(INTEGRATION)** **13.6 – Area under the X axis** **13.7 – Area between curves and lines** **Mixed Exercise 13**
Lessons 1 –Live Zoom lesson **Tasks** **Resources**	**13.6 – Area under the X axis** **Learning objective** – **To find the area bounded by a curve and the x axis.** **Intended Learning Outcomes** --Students will be able to find the area below the x axis. -- Students will be able to understand that when the area bounded by the curve and the x axis is below the x axis, the area will be negative. -- Students will be able to solve problems where the areas between the curve and x axis are identified above and below x axis. 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 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/ 5. https://www.examsolutions.net/

Lessons 2 –Live Zoom lesson	**13.7 – Area between curves and lines**
	Learning objective – **To find areas bounded by curves and straight lines.**
	Intended Learning Outcomes
	--Students will be able to use definite integration together with areas of trapeziums and triangles to find more complicated areas of graphs.
	-- Students will be able to define shaded region with the help of the area under the curve and the area beneath the triangle.
	-- Students will be able to evaluate the definite integral separately. This will help them avoid making errors in their working.
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. Pure Mathematics Year 1 / AS 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/ 5. https://www.examsolutions.net/
Lessons 3 –Live Zoom lesson	**Mixed Exercise 13**
	Learning objective – **To reinforce the concepts learnt and work out the problems from Integration**
	Intended Learning Outcomes
	--Students will be working out the problems from mixed exercise, pg 306 onwards.
	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. Pure Mathematics Year 1 / AS 3. https://www.physicsandmathstutor.com/ 4. https://www.drfrostmaths.com/
Resource	**5.** https://www.examsolutions.net/