YEAR 13 – MATHEMATICS (Week 9)

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Subject	Mathematics
Class/ Section	Year 13 – Batch A, B and C
Week	17 th May to 21 st May
Work send to students by	Group email / Google classroom / Zoom
Total number of lessons per week	6
	– Series
Units	- Proof by Mathematical Induction
Lessons 1 –Live Zoom lesson Lesson 2&3 will be asynchronous wherein work will be assigned in google classroom which will be matched to the students ability.	Learning objective — To Use the sigma notation for Series -To Use the formula for ∑r Intended Learning Outcomes -Students will be able to write out a series when it is given in sigma notation - Students will be able to write a series using sigma notation when it is given in expanded form for linear sequences. - Students will be able to write a series in sigma notation when the sequence is quadratic. -Some students will explore formula for ∑r². This will be a extended task and students will explain their findings in next week's zoom class and then present worked examples in Google classroom.
Tasks	Complete the questions assigned from the resource file in the notebook. Students will be put in break out rooms during Zoom lesson to encourage collaborative learning.

	1. Edexcel FP1 textbook
Родомическ	2. https://www.physicsandmathstutor.com
Resources	
Lesson 4-Live Zoom Session	Learning objective – To use mathematical induction to produce a
Lesson 5&6 will be asynchronous	proof for a general term of a recurrence relation
wherein work will be assigned in	-Use proof by induction to prove general statements involving
google classroom which will be	matrix multiplication.
matched to the students ability.	Outcomes Intended learning
	-Students will be able to prove recurrence relation of the type
	U_{n+1} = , using mathematical induction -Students will be able to prove recurrence relation of the type
	U _{n+2} = using mathematical induction.
	-Students will explore proof for U_{n+3} .
	This will be a extended task and students will explain their
	findings in next week's zoom class.
	-Students will formulae for matrix powers for different 2x2
	matrices.
	-Students will explore proof of matrix powers for 3x3 matrices.
	This will be a extended task and students will explain their
	findings in next week's zoom class.
Tasks	Complete the questions assigned from the resource file in the
Tasks	notebook. Students will be put in break out rooms during Zoom
	lesson to encourage collaborative learning.
	ressent to encourage contacting to feating.
Resource	1. Edexcel FP1 textbook
	2. <u>https://www.physicsandmathstutor.com/</u>