Year 13 October Mocks

Applied Maths – 1 hour

For the applications side of things, the October assessment will include only Y12 Mechanics.

Here are the topics to revise:

- Connected particles (lifts / tension / treating system as a whole v. a single particle)
- F=ma
- Motion under gravity (drawing a diagram, modelling assumptions, +ve and -ve directions)
- Suggest improvements to models of motion / provide critique
- SUVAT
- Variable acceleration (using calculus to move from displacement functions, to velocity function and then to acceleration functions)
- Velocity -Time graphs (working out missing values using geometry and forming equations / working with area and gradient)