Meden School Curriculum Planning								
Subject	Physics	Year Group	12	Sequence No.		Торіс	Mechanics part	
							2:	
							Momentum	
							and energy	

Retrieval	Core Knowledge	Student Thinking
What do teachers need retrieve from students before they start teaching new content?	What specific ambitious knowledge do teachers need teach students in this sequence of learning?	What real life examples can be applied to this sequence of learning to development of our students thinking, encouraging them to see the inequalities around them and 'do something about them!'
AQA GCSE Physics P5 Forces and motion AQA GCSE Physics P1 Energy	3.4.1.6 Momentum momentum = mass × velocity Conservation of linear momentum. Principle applied quantitatively to problems in one dimension. Force as the rate of change of momentum, $F = \frac{\Delta mv}{\Delta t}$ Impulse = change in momentum $F\Delta t = \Delta mv$, where F is constant. Significance of the area under a force-time graph. Quantitative questions may be set on forces that vary with time. Impact forces are related to contact times (or kicking a football, crumple zones, packaging)	Car safety devices are all based on the concept of changing momentum eg airbags, seatbelts crumplezones, <u>These Crashes Show the Difference</u> <u>20 Years Has Made to Car Safety </u> <u>WIRED - YouTube</u>

