

## AQA B PHYB2a

Spec Ref	Topic	TAP episode	comments
3.2.1 A	Vectors and scalars.	201	
	Addition & resolution of two vectors at right angles.	201	
B	Conditions for equilibrium of two or three forces	202	
C	acceleration $s-t$ , $v-t$ and $a-t$ graphs for uniform acceleration	205	
	equations of motion	206	
D	$F=ma$	211	
	Momentum , Impulse	220, 222	
	The forces on an inclined	202	
	air resistance, Terminal velocity	209	
	projectiles	207	
	lift and drag and aircraft.		
E	Work, energy and power	214	
	PE and KE	216	
	$W = Fs \cos\theta$	214-1	
	Elastic potential energy, Energy stored	229	
	Energy conservation		
3.2.2 A	energy from non-renewable sources		
	energy generated by different sources in the UK.		
	energy use at individual, national and international level.		
	Sankey diagrams	217	
B	Factors affecting the rate of temperature rise of the Earth		
	electromagnetic spectrum	314	
	effects on humans		
	greenhouse effect		
	balance between energy inflow and energy re-radiation		
	wavelength conversion into near infrared in the atmosphere.		
	comparison with other planets, compare power losses.		
	Wien's law		
	Rising sea level due to melting ice caps.		
	Principle of flotation and Archimedes' principle, Density		