

Spec Ref	Topic	TAP episode	comments
4.1.1	Use Newton's three laws of motion	210/211/212	
	Force defined as rate of change of momentum		
	Impulse and momentum	222	
4.1.2	Conservation of momentum	220	
	Elastic & inelastic collisions	221-2 221-1	Elastic collision questions Momentum, elastic & inelastic
4.2.1	Radians and degrees	225	First part of 225 only
	Circular motion	224	
	Centripetal motion and force	225	Second part of 225
4.2.2	Gravitational fields and field strength	402	Assumes knowledge of Newton's law of gravitation
	Newton's law of gravitation	401	
	Gravity and the Earth	402 402-1	Some discussion of the Earth Questions relate to the Earth
	Period of planets and satellites	403-1	Questions on orbital motion
	Kepler's third law	403	Including the questions 403-2
	Geostationary satellites	403 403-3	Relates to changing orbits
4.2.3	Oscillations, period and frequency	301	
	SHM and equations	302	
	Energy changes in SHM	305	
	Damping and resonance	305 306	Damping Resonance
4.3.1	Solids, liquids and gases		
	Brownian motion	601	
	Kinetic model of pressure	601-7	
	Internal energy and temperature	603	
	Boiling, melting and evaporation		
4.3.2	Temperature and scales		
	Absolute zero	602	
4.3.3	Specific Heat Capacity	607	
	Latent Heat	608	
4.3.4	Boyle's Law	601-4	
	Kinetic theory of gases	603	
	The Avogadro constant		
	Ideal gas equation	602	