Chapter 11 – Waves and the Doppler Effect

Learning Grid

	Questions	Answers			
Wave and the Doppler Effect	Define a wave.				
	What is a transverse wave? Include an annotated diagram showing the key parts of a wave.				
	What is a longitudinal wave? Include an annotated diagram.				
	Explain what each of the following quantities are, including their symbol and unit: (i) Wavelength (ii) Frequency (iii) Amplitude (iv) Period	(i)	(ii)	(iii)	(iv)

Wave and the Doppler Effect	Questions	Answers
	What is the relationship between energy carried by a wave and its amplitude?	
	What is the equation for the speed of a wave? Include what each variable means and its associated unit.	
	Give three real-world examples of waves and state if they are transverse or longitudinal.	
	What is the Doppler effect? Use an annotated diagram to explain your answer.	
	What is the Doppler effect equation? Include what each variable represents and its associated unit.	
	Give two applications of the Doppler effect.	