

High Tunstall College of Science Curriculum Intent

Subject: Physics (Separate) Year: 11

Thread 6—Waves and Space



	Physics Thread 6	Progress		
Topic	Key ideas	R	A	G
Waves and space	I can compare transverse and longitudinal waves, and apply the equation $\text{wave speed} = \text{frequency} \times \text{wavelength}$			
	I can use data from practical work to calculate wave speed			
	I can recall the waves of the electromagnetic spectrum and give their use and properties			

Lesson	Learning Focus	Assessment	Key Words
1	What are transverse and longitudinal waves?	Extended comparative writing	Transverse, longitudinal
2	RPA—Waves	Completion of practical work and correct calculations	Wave speed, frequency, wave length
3	What are EM waves and how are they used?	Completion of exam questions related to the electromagnetic spectrum	Electromagnetic spectrum
4	How are EM waves used to communicate?	Completion of differentiated tasks	Waves, transmitter, receiver
5	RPA—Radiation	Completion of the required practical activity	Radiation