

# High Tunstall College of Science Curriculum Intent

Subject: Trilogy Science (Physics) Year: 10

## Waves and Space



	Physics Thread	Progress		
Topic	Key ideas	R	A	G
Waves and space	I can compare transverse and longitudinal waves and calculate using formula			
	I can calculate the wave speed of a wave in a liquid and a solid			
	I can order and identify the uses and dangers of electromagnetic waves.			
	I can explain how electromagnetic waves are reflected and refracted.			

Lesson	Learning Focus	Assessment	Key Words
1	Understanding wave features and calculating wave speed.	Comparing transverse and longitudinal waves, and calculating using formula Formative questioning, exam questions and summative tests.	Frequency, Wavelength, amplitude, wave speed., transverse, longitudinal, <a href="#">time period</a>
2	Required practical investigating wave speed in liquids and solids.	Observation and formative assessment of students completing a safe and accurate practical. Exam questions .	Frequency, Wavelength, amplitude, wave speed.
3	Exploring the electromagnetic spectrum.	Ordering and identifying uses and dangers of electromagnetic waves. Formative questioning, exam questions and summative tests.	Electromagnetic, wavelength, radiation, frequency, wave speed, <a href="#">sievert</a>
4	Reflection and refraction of electromagnetic waves.	Drawing and explaining reflection and refraction diagrams. Formative questioning, exam questions and summative tests.	Reflection, refraction, normal, incidence.
5	Required practical activity—Radiation	Observation and formative assessment of students completing a safe and accurate practical. Exam questions	Radiation, infrared, absorption