

Unit Overview – Waves

Target grade for tests:



You will learn about:

Wave Properties including wavelength, frequency, speed and period. The processes of reflection and refraction. The uses of waves including; Human hearing, sound and ultra sound. How Seismic waves in the earth give us information about the earths structure.

You will be able to:

use and rearrange equations, draw reflection and refraction ray diagrams and you will have developed your practical skills of observation and constructing tables.

Key learning points		Key Words
Wave properties and speed		
Reflection of water waves		
Electromagnetic spectrum properties		
Electromagnetic spectrum uses		
Electromagnetic spectrum dangers		

Links to other subjects:

SMSC
Understand and appreciate the impacts of earthquakes on human population and the environment and describe the effects that this is having. Imaging of developing foetuses.

Numeracy
Rearranging equation. Substituting numerical values into equations using appropriate units.

Literacy
Describe observations in practical work. Explain the properties of waves including the differences between reflection and refraction.

Key Words

Wavelength
Frequency
Hertz
Amplitude
Rarefaction
Compression
Echo
Specular
Diffuse
Reflection
Refraction
Absorption
Transmission
Ultrasound
Seismic waves
Seismometer