

LEARNING JOURNEY

Physics



P6 Waves 1 and 3

Year 10 Summer Term

You will learn a good deal of technical knowledge about waves and their features. You will study how waves are used in nature and in science.

You will learn how to measure waves, and how to calculate a range of quantities from such information.

You will learn more about ray diagrams, and how these allow you to show refraction.

Waves

Wave Types and Features:

You will learn the main types of wave, in terms of direction of oscillation and medium required

Wave Properties:

You will learn the features of waves, and how to measure and calculate quantities; and how to use waves on graphs

Practical:

You will develop practical skills and learn how we can measure a range of quantities to calculate wave speed.

Reflection and Refraction

You will learn how to draw ray diagrams and what the rules of refraction and reflection are

Refraction Practical

You will develop practical skills further, planning a valid method. You will learn how the reflection and refraction practical work.

Sound Waves:

You will learn what sound waves need to travel and how to measure sound waves

SEPS ONLY

Ultrasound
you will learn what uses Ultrasound has in medicine or sports science.

SEPS ONLY

Seismic Waves
you will learn that the different types of seismic wave can help us understand the structure of the Earth.

SEPS ONLY

Lenses and light
You will learn how refraction works in lenses, creating images from light reflected off objects

TUDOR HABITS: You will develop the Tudor Habit of Positive self-regulation because it the practical work requires a lot of careful planning and measurement

VOCABULARY

Transverse
Longitudinal
Refract
Transmit
Optically dense

medium
amplitude
front
compression