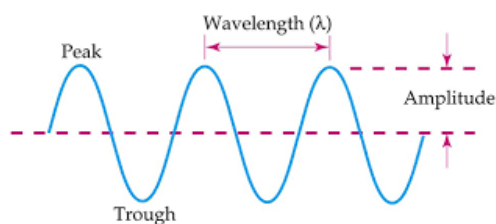


Unit Overview – Waves

Target grade for tests:

You will learn about:

- Different types of waves
- How waves behave
- Uses of waves
- The eye and ear



Skill focus:

- Evaluating information.

| Key learning points | | Key Words |
|---|--|---------------------|
| Understand that our body can detect light, sound and infrared waves | | Vibration |
| Identify key features in wave diagrams | | Longitudinal wave |
| Describe the links between frequency/pitch and amplitude/volume | | Volume |
| Explain echoes | | Pitch |
| Evaluate the different methods of correcting vision defects | | Amplitude |
| Describe refraction | | Wavelength |
| Explain reflection using ray diagrams | | Frequency |
| State the law of reflection | | Vacuum |
| Explain the difference between: transparent and translucent | | Oscilloscope |
| State that coloured light is part of a spectrum and understand how colours are created | | Absorption |
| Understand the structure and function of the eye and the ear | | Auditory range |
| | | Echo |
| | | Hertz |
| | | Decibels |
| | | Incident ray |
| | | Reflected ray |
| | | Normal |
| | | Angle of reflection |
| | | Angle of incidence |
| | | Refraction |
| | | Absorption |
| | | Scattering |
| | | Transparent |
| | | Translucent |
| | | Opaque |
| | | Convex lens |
| | | Concave lens |
| Links to other subjects: | | |
| Maths | | |
| <ul style="list-style-type: none"> • Reflection. • Use prefixes for units when handling large numbers • Interpreting data in tables • Measuring and recording angles • Spotting trends in data | | |
| SMSC | | |
| <ul style="list-style-type: none"> • Explore the links between radio masts, mobile phones and cancer. | | |
| Numeracy | | |
| <ul style="list-style-type: none"> • Use prefixes for units when handling large numbers • Interpreting data in tables • Collect valid data by accurately measuring and recording angles • Spotting trends in data | | |
| Literacy | | |
| <ul style="list-style-type: none"> • Write an evaluation of a process or procedure based on information that you are provided with. | | |