

What are we learning about?

In this topic we are going to look at waves as a means of transferring energy. We will look at different types of waves, how to measure them, and what they are used for in day-to-day life.



Why are we learning about it?

You probably don't realise what a huge role waves play in your life. TV, Mobile Phones, Internet, Light, Sound, plus a range of medical uses! Understanding how waves work is very important to understanding modern life.



What new **KNOWLEDGE** will I gain?

Transverse and longitudinal waves, labelling waves, EM waves, properties of waves and uses of different types of wave. Triple will also look at lenses, sound waves, black-body radiation and how waves are used for medical imaging and earthquake detection.



Waves: Learning Journey

How does this build on the **SKILLS** I already have?

The practical skills you have used before will be useful again, as will your practice with using and rearranging equations.



What new **SKILLS** will I develop?

There is a required practical in this topic which will develop your working scientifically skills. In addition you will also develop your maths skills with another equation or two, and your writing skills by evaluating the uses of different waves.



How does this build on the **KNOWLEDGE** I already have?

You first learnt about waves in Y8 as part of the transferring energy topic. Then, you looked at light waves and sound waves, which both come up again in this topic. We will also build on ideas from the energy topic in Y9.