



Year 8 Physics Learning Map



- TERM 1 -

Matter and Density

It's important for scientists to know the properties of matter because all things are made up of matter. Each type of matter has different physical characteristics and scientists need to know and understand these characteristics. This topic looks at the properties of the 3 states of matter: solids, liquids and gas. It also explores the idea of density.



LINKS TO PRIOR LEARNING

From KS2 most students will be able to:

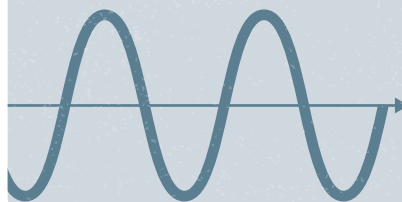
- Compare and group materials together, according to whether they are solids, liquids or gases.
- Observe that some materials change state when they are heated or cooled.
- Identify the part played by evaporation and condensation in the water cycle and associate the rate of evaporation with temperature.



- TERM 2 -

Waves

Waves are one way in which energy may be transferred between stores. In this topic, we look at the properties of light and sound waves. We also study how our eyes help us see the world around us.



LINKS TO PRIOR LEARNING

From KS2 most students will be able to:

- Recognise that light appears to travel in straight lines.
- Use the idea that light travels in straight lines to explain that objects are seen because they give out or reflect light into the eye.
- Explain that we see things because light travels from light sources to our eyes or from light sources to objects and then to our eyes.
- Identify how sounds are made, associating some of them with something vibrating.
- Recognise that vibrations from sounds travel through a medium to the ear.



- TERM 3 -

Pressure

Pressure is a key concept that we utilise daily. Here, we explore what pressure is; how it affects our lives and learn how we can calculate the amount of pressure exerted by an object.



LINKS TO PRIOR LEARNING

From KS2 most students will:

- Have studied about the different types of forces and their effect.

