

What are we learning about?

In this topic we are going to look at the differences between solids, liquids and gases, and how we can use these difference to calculate the energy required to heat or change the state of different materials.



Why are we learning about it?

Solids Liquids and Gases are three states of matter that we experience every day, but they are also useful in other contexts. Mechanics, Builders and many other professions need to use the calculations from this topic in their jobs.



What new KNOWLEDGE will I gain?

Structure and movement of particles in solids liquids and gases, calculations of specific heat capacity and specific latent heat, and the method and equation for determining density.



Particle Model: Learning Journey

How does this build on the SKILLS I already have?

You can already use and rearrange equations – this topic will give you the opportunity to practice and build on this. You have also spent lots of time learning how to write a scientific method, which you will get a chance to refine during this topic.



What new SKILLS will I develop?

You will be able to describe the method for two new practicals, and use the results from these to calculate Specific Heat Capacity and Latent Heat. This will include continuing your practice with rearranging equations.



How does this build on the KNOWLEDGE I already have?

In KS3 you learnt about solids liquids and gases as three separate states. In this topic, we consider them more as different stages of the same process. You have also learnt about atoms in chemistry – now we look at how they behave.