

### What are we learning about?

In this topic we are going to look at what atoms and particles are, how they interact with each other and how they form the shapes of everything around us. It is one of the fundamental concepts of science.



### Why are we learning about it?

Atoms are the building blocks of everything. Understanding how these work is essential to see how the world around us works. It shows us how materials can behave and what properties they have.



### What new **KNOWLEDGE** will I gain?

Structure and movement of particles in solids liquids and gases. What atoms, elements, compounds and mixtures are.



## Particle Model: Learning Journey

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

You are already familiar with some of the key lab equipment. You will be using this to create compounds and separate mixtures. You will also use your investigation skills



### What new **SKILLS** will I develop?

You will be able to identify whether a substance is an element, compound or mixture. You will be able to explain the difference between solids, liquids and gases at a particle level. You will be able to describe the methods for separating mixtures.



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

In primary school you will have looked at properties of materials. You will build on this to be able to explain why they have these properties.