We will learn: Particles and their behaviour

Element	More ambitious			
1. Introducing the particle model	Match particle models to the properties of a material Describe how materials are made up.	Use the particle model to explain why different materials have different properties. Explain how a range of materials are made up.	Evaluate particle models	
2. States of matter	Match the properties of states of matter to the name of the state	Describe the properties of a substance in its three states	Use ideas about particles to explain the properties of a substance in its three states	
3. Melting and freezing	Describe my observations as stearic acid cools in terms of its states of matter	Use the particle model to explain changes involving solids and liquids	Interpret data about melting points	
4. Boiling	Use practical methods to determine the boiling point of water	Describe boiling as a change of state	Use the particle model to explain boiling	
5. More changes of state	Describe change of state using the words condensation and evaporation correctly	State the meaning of sublimation	Describe how particles change their arrangements when evaporation, condensation and sublimation occur	Use the particle model to explain evaporation, condensation and sublimation
6. Diffusion	State some examples of diffusion	Describe evidence for diffusion	Use the particle model to explain how diffusion occurs and the factors that affect it.	
7. Gas pressure	Describe what pressure is.	To explain pressure using particle theory.	Explain the collapsing can experiment using the words particle and pressure.	