## Year 7: ASK Yourself!

## Subject: Science Unit 7.4: Explaining physical changes

	Launching	Developing	Progressing	Mastering
<b>S</b> kills				
	I need to be able to explain the properties of solids, liquids and gases based on the arrangement and movement of their particles.	I can partially draw before and after diagrams of particles to explain observations about changes of state, gas pressure and diffusion.	I can confidently relate the features of the particle model to the properties of materials in different states. I ca confidently make predictions about what will happen during unfamiliar physical processes, in	I can expertly explain unfamiliar observations about gas pressure in terms of particles.
<b>K</b> nowledge	I need to know	I partially know	terms of particles and their energy.	I understand how
	that a substance is a solid below its melting point, a liquid above it, and a gas above its boiling point.	that observations where substances change temperature or state can be described in terms of particles gaining or losing energy.	that properties of solids, liquids and gases can be described in terms of particles in motion but with differences in the arrangement and movement of these same particles: closely spaced and vibrating (solid), in random motion but in contact (liquid), or in random motion and widely spaced (gas).	to classify substances which behave unusually as solids, liquids or gases. I understand how to evaluate observations that provide evidence for the existence of particles.