

<b>Particle Model of matter: Content</b>	<b>End</b>
Define density and calculate it by recalling and applying the equation: density = mass/volume	
Draw simple diagrams to model a solid, liquid and gas and use these to explain the difference in density.	
REQUIRED PRACTICAL: Explain how to record the density of regular and irregular shaped objects.	
Describe the different changes of state	
Describe what is meant by internal energy	
Be able to explain the effect of changing temperature on a system and how this relates to the specific heat capacity.	
Describe what is meant by specific latent heat and be able to calculate it.	
Be able to distinguish between specific latent heat and specific heat capacity	
Interpret heating and cooling graphs for state changes	
Explain how changing the temperature of a gas can change its pressure	
<i>PHYSICS ONLY: Explain how increasing the volume of a gas can decrease the pressure</i>	
<i>PHYSICS ONLY: Apply the equation: pressure x volume = constant</i>	
<i>PHYSICS ONLY (HT): Explain how doing work on a gas leads to an increase in the temperature of the gas, in given situations</i>	