



## DU 7: THE HEAT AND TEMPERATURE



This is true for me



This is partly true for me



This isn't true for me

DATE			
I associate thermal energy with the average kinetic energy of a substance's particles.			
I can understand the information from a substance's heating curve.			
I can explain the concept of temperature in terms of the kinetic-molecular model.			
I can distinguish between temperature, energy and heat.			
I can recognize the existence of an absolute temperature scale and I can relate to the Celsius and Kelvin scales.			
I can recognize "impossible" temperatures.			
I can explain the expansion and some of its applications, such as liquid thermometers, expansion joints, and so on.			
I can explain the Celsius scale and I know how to set the fixed points of a thermometer based on the expansion of a volatile liquid.			
I can perform calculations on gases using Charles's law.			
I know the heat units and I can change units between them.			
I can interpret food energy content tables.			
I can predict the direction of heat transfer between two bodies in accordance with their temperatures.			
I recognize the different forms of heat transmission.			
I can distinguish good and bad heat conductors.			
I can predict breeze circulation as a result of convection phenomena			
I can identify the mechanisms of energy transfer by recognizing them in different everyday situations, and I can justify the selection of materials for buildings and the design of heating systems.			
I can apply the concepts of energy transfer in the context of energy saving			