

Outcomes and experiences S3/S4 Physics	G	O	R	How do I know I can do this or what can you do to improve your learning in this outcome?
I am aware that when a substance changes state there is no change in temperature				
I can define specific latent heat as being <i>“the heat energy required to change the state of one kg of a substance”</i>				
I can explain that a <ul style="list-style-type: none"> • fusion change takes place when a solid changes to a liquid • vaporisation change takes place when a liquid changes to a gas 				
I can explain that the same material requires different quantities of heat for fusion and vaporisation changes e.g. $l_f \text{ water} = 3.34 \times 10^5 \text{ Jkg}^{-1}$ $l_v \text{ water} = 22.6 \times 10^5 \text{ Jkg}^{-1}$				
I can identify the quantities, and units, represented by the symbols in the formula $E_h = ml$				
I can carry out calculations using the formula $E_h = ml$				
I can identify changes in the state of a substance by analysing data from a graph				