Formative Task - SHC LH Video Explanation

ATL(s) being taught and assessed:

Communication - Organise and depict information logically

Task

In an experiment to determine the specific latent heat of fusion of ice, an ice cube is dropped into water that is contained in a well-insulated calorimeter of negligible specific heat capacity. The following data are available.

Mass of ice cube = 25 gMass of water = 350 gInitial temperature of ice cube = $0 ^{\circ}\text{C}$ Initial temperature of water = $18 ^{\circ}\text{C}$ Final temperature of water = $12 ^{\circ}\text{C}$

Specific heat capacity of water = $4200 \text{ J kg}^{-1} \text{K}^{-1}$ Using the data, estimate the specific latent heat of fusion of ice.

Make a 1 minute video to explain the steps you have taken in solving this problem, including any assumptions made.

Formative assessment criteria:

Not there yet	Meeting expectations	Beyond expectations
	- Explanation leads to a conclusion that the viewer can follow	
	 Conservation of energy is correctly mentioned 	
	- Mathematics is structured and clear	
	 Explanation is concise, visual aides help the viewer understand the process 	
	- Video is 1 minute or less	