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| Year 11 Physics Laboratory Mark  Latent heat | | |
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| **Name:** | **Teacher:** | **Score /25** |
| **Comment:** | | |

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| --- | --- | --- | --- |
|  | **Max mark** | **Mark** | **Comment/ marking key** |
| **Appropriately set- out with table prepared and good setting out.** | **3** |  |  |
| **(a) Mass of calorimeter+ water** | **1** |  |  |
| **(b) Mass calorimeter** | **1** |  |  |
| **(c) Calc initial mass water** | **1** |  |  |
| **(d) Initial temp water** | **1** |  |  |
| **(e) Final temp water** | **1** |  |  |
| **(f) Final mass calorimeter+water** | **1** |  |  |
| **(g) Final mass water** | **1** |  |  |
| **(h) mass of added ice**  **=(g)-(c)** | **1** |  |  |
| **Repeat set of measurements** | **2** |  |  |
| **Q 1 and 2**  **Calculation of Latent heat of Fusion** | **4** |  |  |
| **Repeat calculation** | **1** |  |  |
| **3(i)** | **1** |  | Adding impurities reduces the temperature at which the ice melts |
| **3(ii)** | **1** |  | This will increase the temperature difference for the ice |
| **3(iii)** | **1** |  | on right side will be larger then Lf will be smaller thanexpected |
| **4** | **1** |  | Having a higher temperature will melt ice quicker and reduce heat loss to surroundings |
| **5** | **1**  **1** |  | Compare value  Percentage difference |
| **6** | **1** |  | A frozen ice pack stay colder longer because the heat from the sprain will initially go to changing the phase from ice to water |