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| **Prac13**  **Physics Practical** | | | |
|  | P:\Drayton Logo\Drayton Manor logo filled 2014.JPG**Y12 Core Practical**  **Specific latent heat** | | |
| Skills Assessed | | Met? |
| 2. Applies investigative approaches and methods when using instruments and equipment | a. Correctly uses appropriate instrumentation, apparatus and materials (including ICT) to carry out investigative activities, experimental techniques and procedures with minimal assistance or prompting. |  |
| b. Carries out techniques or procedures methodically, in sequence and in combination, identifying practical issues and making adjustments when necessary. |  |
| c. Identifies and controls significant quantitative variables where applicable, and plans approaches to take account of variables that cannot readily be controlled. |  |
| d. Selects appropriate equipment and measurement strategies in order to ensure suitably accurate results. |  |
| 4. Makes and records observations | a. Makes accurate observations relevant to the experimental or investigative procedure. |  |
| b. Obtains accurate, precise and sufficient data for experimental and investigative procedures and records this methodically using appropriate units and conventions. |  |
| 5. Researches, references and reports | a. Uses appropriate software and/or tools to process data, carry out research and report findings. |  |
| b. Cites sources of information demonstrating that research has taken place, supporting planning and conclusions. |  |

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| Introduction | |
| In this investigation you will determine the specific latent heat of ice by measuring the drop in temperature of water containing melting ice. | |
| Equipment   * Funnel * Retort stand * Crushed ice * Container * 250cm3 beaker * Thermometer * Stirrer * Mass balance | Method  You need to plan a method that will provide sufficient, valid data, to find a value for the specific latent heat of ice. |
| Relevant equation:  The specific heat capacity, c, of water is 4.20 J g-1 °C-1.  E = m c ΔƟ  E = mL | |