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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
 | MethodYou 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 ΔƟE = mL |