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| **Prac3****Physics Practical** |
|  | P:\Drayton Logo\Drayton Manor logo filled 2014.JPG**Y12 Core Practical****Resistivity of a Wire** |
| 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.  |  |
| 3. Safely uses a range of practical equipment and materials | a. Identifies hazards and assesses risks associated with these hazards, making safety adjustments as necessary, when carrying out experimental techniques and procedures in the lab or field. |  |
| b. Uses appropriate safety equipment and approaches to minimise risks with minimal prompting.  |  |
| 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.  |  |

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| Introduction |
| In this investigation you will determine the of resistivity of a wire using a micrometer, ammeter and voltmeter |
| Equipment* a length of constantan
* Low voltage variable DC supply
* Ammeter
* Voltmeter
* Crocodile clips
* Connecting leads
* Metre ruler
* Micrometer
 | MethodYou need to plan a method that will provide sufficient, valid data, to find a value for the resistivity of the wire ***using a graphical method*** |
| Relevant equation: |