**Conducting the Practical**

Your teacher will observe you as you conduct your experimental work and will award a grade based on the following criteria

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| --- | --- | --- | --- |
| Criteria | Ding | D | HD |
| * Uses appropriate safety equipment at all times * Follows safe work practices at all times * Leaves work space clean at end of each lesson * Uses lesson time constructively on task |  |  |  |
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**Experimental Report**

Here is the marking guideline and report structure information to help you with your report. Pearson Science Section 1.3) Processing and Anaylsing Unit will be very helpful pg 18 – 22.

Key to table – Developing (Ding), Developed (D) and Highly Developed (HD)

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| ***Criteria*** | **Ding** | **D** | **HD** |
| **1. Aim –** clear statement outlining problem to be solved |  |  |  |
| **2. Hypothesis –** correctly written prediction with reference to independent and dependent variables. |  |  |  |
| **3. Variables**   * independent variable identified * dependent variable identified * at least THREE controlled variables identified |  |  |  |
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| **4. Equipment** – comprehensive list given of all scientific equipment and materials used |  |  |  |
| **5. Method**   * A numbered set of instructions in a LOGICAL sequence * Each step is a CLEAR and SPECIFIC instruction on how to conduct the experiment ie include descriptions, quantities and sizes of equipment * Method is written so that another student accurately repeat the experiment, exactly the way that it was carried out. * Make sure there is a risk assessment with at least 2 risks * There also must be an annotated experimental diagram * Do not use first person * Write in PAST tense ie use words such as “was” and “were” * Repetition |  |  |  |
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| **6. Results**   * Describe what you observed and measured * Display your results using a table or graph  1. for table – appropriate headings, table enclosed 2. for graph – axes correctly labelled, points plotted, line/column used |  |  |  |
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| **7. Discussion**   * Describe what happened in your investigation * Explain why it happened * You may be able to include research or information from your textbook that relates to your experiment * Describe any problems that you encountered and how you overcame them * Assess your investigation. This includes assessing whether your hypothesis was accurate or not, suggesting alternative procedures that might improve the investigation and ideas for further investigations |  |  |  |
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| **8. Conclusion**   * A brief summary (no more than 2 sentences) of what you found out through this investigation * State significant data |  |  |  |
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