**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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