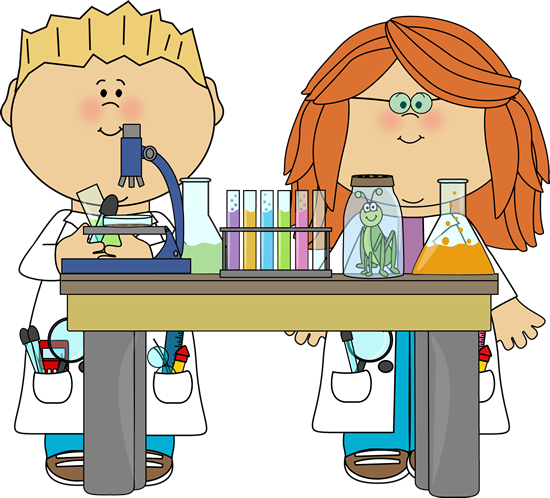


**Experimental Report Booklet**



**Name \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Class \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Teacher \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**A Glossary of Key Words**

Syllabus outcomes, objectives, performance bands and examination questions have key words that state what students are expected to be able to do. A glossary of key words has been developed to help provide a common language and consistent meaning in the Higher School Certificate documents.

Using the glossary will help teachers and students understand what is expected in responses to examinations and assessment tasks.

**Account** Account for: state reasons for, report on. Give an account of: narrate a series of events or transactions

**Analyse** Identify components and the relationship between them; draw out and relate implications

**Apply** Use, utilise, employee in a particular situation

**Appreciate** Make a judgement about the value of

**Assess** Make a judgment of value, quality, outcomes, results or size

**Calculate** Ascertain/determine from given facts, figures or information

**Clarify** Make clear or plain

**Classify** Arrange or include in classes/categories

**Compare** Show how things are similar or different

**Construct** Make; build; put together items or arguments

**Contrast** Show how things are different or opposite

**Critically** Add a degree or level of accuracy depth, knowledge and understanding, (analyse/ logic, questioning, reflection and quality to (analysis/evaluation) evaluate)

**Deduce** Draw conclusions

**Define** State meaning and identify essential qualities

**Demonstrate** Show by example

**Describe** Provide characteristics and features

**Discuss** Identify issues and provide points for and/or against

**Distinguish** Recognise or note/indicate as being distinct or different from; to note differences between

**Evaluate** Make a judgement based on criteria; determine the value of

**Examine** Inquire into

**Explain** Relate cause and effect; make the relationships between things evident; provide why and/or how

**Extract** Choose relevant and/or appropriate details

**Extrapolate** Infer from what is known

**Identify** Recognise and name

**Interpret** Draw meaning from

**Investigate** Plan, inquire into and draw conclusions about

**Justify** Support an argument or conclusion

**Predict** Suggest what may happen based on available information

**Propose** Put forward (for example a point of view, idea, argument, suggestion) for consideration or action

**Recall** Present remembered ideas, facts or experiences

**Recommend** Provide reasons in favour

**Recount** Retell a series of events

**Summarise** Express, concisely, the relevant details

**Synthesise** Putting together various elements to make a whole

Validity, Accuracy and Reliability.

A summary guide.

|  |  |
| --- | --- |
| **Reliability, Accuracy and Validity** | |
| **SECONDARY SOURCES** | **FIRST-HAND INVESTIGATIONS** |
| The data in a source are VALID if   they have been gathered using appropriate methods   they relate to the hypothesis or problem | A method is VALID if   the measurements are actually measuring what you intend them to measure   it incorporates suitable equipment, controlled variables, appropriate measuring procedures etc |
| **A secondary source is RELIABLE if**   the information is not biased   it has been written by a qualified person   it is on a reputable site, i.e. .gov .edu   it is current (check date)   it refers to data and statistics from valid first-hand investigations | **Results are RELIABLE if**   the experiment is repeated the results are the same (within an acceptable margin of error).  *Repetition will only* ***determine*** *reliability it will NOT improve it.*  *Reliability can be improved by carefully controlling all variables (except the experimental variables!!)*  *Another term often used for reliability is REPRODUCIBILITY.*  **Repetition will only determine reliability (it will NOT improve it). Measurements can be reliable without being valid. However they cannot be valid unless they are reliable!** |
| **The information in a source is ACCURATE if**   the information can be substantiated in more than one reliable source | **Results are ACCURATE if**   the design of the experiment is valid and the sensitivity of the equipment used   they are close to the true value of the quantity being measured.   they can be substantiated in secondary sources  *Accuracy depends on the design of the experiment (ie the validity of the method) and the sensitivity of the instruments used.* |

**Prac. No. \_\_ Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_Date\_\_\_\_\_\_\_**

**Aim (Write a brief description about what you are trying to find out.)**

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**Background Information ( state how does this experiment link to the concepts learn in class.)**

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**Hypothesis**

1. **(Write a statement to explain a fact or observation. It is this hypothesis you will test through this experiment.)**

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1. **(Write a brief statement of what you predict or expect to observe during this experiment.)**

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**Apparatus (list all the equipment used in this experiment. Include size of equipment eg 250ml beaker, and amount of material used eg 5g of copper sulphate powder.)**

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**Safety (In the table below write the risks of the experiment and how you can prevent the risks from occurring.)**

|  |  |
| --- | --- |
| **Risk** | **Prevention** |
|  |  |
|  |  |
|  |  |

**Method**

1. **(Describe the method or process you used to complete the experiment.) All steps should being with a verb (action or doing word).**

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1. **Identify the independent variable (changed), dependent variable (measured) and control variables (kept the same) used in your experiment and list them in the table.**

|  |  |
| --- | --- |
| **Variable** |  |
| **Independent variable** |  |
| **Dependent variable** |  |
| **Control variable** |  |

1. **Draw a clearly labelled scientific diagram for this practical, if required. (Use only a pencil and ruler.)**

**Results**

***Observations* (Describe what you saw during your experiment here.)**

**\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

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***Tabulate* the results, if required. (Include titles and units.)**

**Table title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_**

**Independent variable Dependent variable**

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**Draw a diagram of your observations, if required (eg a plant cell) (label all parts, use a pencil and ruler only.)**

**Title: \_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_\_ Magnification \_\_\_\_\_\_\_**

***Graph* the results, if required. (Select the most appropriate graph type, eg line or column graph. Include graph title, x and y axis label and units. An appropriate scale should be used to spread information evenly along the x axis and y axis. A pencil and ruler must be used.) *Remember*: The dependent variable is on the vertical (y) axis. The independent variable is on the horizontal (x) axis.**

******

y

x

**Discussion**

1. **What do the results tell you?**

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1. **Are there trends? If so explain them.**

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1. **Explain if your results support the background information.**

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1. **What were the experimental errors?**

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1. **What could be done next time to improve the experiment?**

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1. **Are your results reliable? Justify your reasoning.**

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1. **Are your results accurate? Justify your reasoning.**

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**Conclusion**

**(The conclusion is a brief statement which explains if you achieved your Aim and if your results support or disprove your Hypothesis.)**

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