

FREDERICK IRWIN ANGLICAN SCHOOL

PHYSICS PRACTICAL BOOKS

1. Leave the first three ruled pages of the book for an index, which will have the following headings:-

Expt No.	Aim	Page No.	Date

2. Omitting the index, number all pages of the book.
3. Practicals should be read and written up at home as much as possible (usually up to RESULTS/TABLES) on the days before the scheduled time for the practical.
4. Practical books should be finished in class as much as possible. All measurements and readings should be entered directly into it during the class period. The calculations, conclusions, answers to questions if not completed in class should be completed at home that night or the following day to obtain maximum benefit from the experiment.
5. Practical write ups should be handed in the next day or within 2 days of the completion of the practical.
6. Practical sheets and graph sheets should be glued into the prac. book on the numbered pages in the book.
7. When writing up experiments, observe the following instructions:
 - a. On the page will appear the experiment No. (top left) and date (top right).
 - b. The following headings will appear in the margin and be underlined in RED, Aim, Apparatus, Diagram, Method, Results, Conclusion and Questions and Discussions.
 - c. If the method and diagram are supplied on the 'practical' sheet then simply write "see sheet", all the other headings need to be completed.
 - d. All diagrams and graphs are to be in pencil, all writing up and results are to be in ink.
 - e. All readings and measurements entered are to be in accordance with the accuracy possible with the apparatus, errors should be shown in the accepted manner (e.g. 7.2±0.1sec). The final result must be shown with its error, if errors have been considered in the experiment.
 - f. If there is an internationally accepted result or standard for a quantity which you have had to determine experimentally, then a comparison between the accepted result and your result is necessary. Remember to quote the source of the standard.
 - i) If your result is within the error margin of the accepted result, this should be noted in the conclusion.
 - ii) If your result is outside the error margin of the accepted result you are to calculate the % difference using the formula.
$$\% \text{ error} = \frac{\text{diff. between your result and accepted result}}{\text{accepted result}} \times \frac{100\%}{1}$$
and this % error together with any possible reasons for this error (or improvements in experimental technique or equipment) are to be given in the conclusion.
 - g) If alteration of figures or readings are necessary, the incorrect readings are to be crossed out NEATLY so that they can still be read, the new readings are to be neatly placed as close as possible.
8. Stick this sheet (for quick reference) inside the front cover of your prac. book.