

Physics: Form Six (year Twelve) Student Notes

- (i) A micrometer Screw Gauge
 (j) A few connecting wires
- (A) (i) Arrange the circuit as shown in **Figure 1** below. Make sure that all connections are tight.

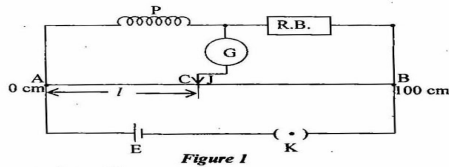


Figure 1

- (ii) Keep the value of E at 2V.
 (iii) Close the key K. Take out a 1Ω plug from the resistance box R.B so that $x = 1\Omega$.
 (iv) Place the jockey J gently at different points on the wire AB till at a certain point C, the galvanometer G shows no deflection. Note and record the length $AC = l$ in cm, correct upto one decimal place.
 (v) Repeat the experiment to obtain five more values of l with $x = 2\Omega, 3\Omega, 4\Omega, 5\Omega$ and 6Ω .
 (vi) For each value of x , calculate $y = \frac{100}{l}$ correct upto two decimal places.
 (vii) Tabulate all six sets of values of x, l and y with their units.
 (viii) Show any one of the readings in (vii) above, to the Visiting Examiner.
 (ix) Now plot a graph of y vs x .
 (x) Draw the line of best fit.
 (xi) Determine its slope S, using:

$$S = \frac{\text{change in } y}{\text{change in } x}$$

and record its value in your answer booklet.

- (B) (i) Determine the least count of the given Screw Gauge and record its value in mm.
 (ii) Using this Screw Gauge, determine the diameter 'd' of the given specimen wire W in mm and record its value in your answer booklet.
 (iii) Now calculate K where:

$$K = \frac{\pi d^2}{200S} \times 10^6 \text{ (where S is the value of the slope determined in Q.1A.)}$$

and record its value in your answer booklet.

(Note: K is a measure of resistivity of the material of the given specimen wire.)

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school or. The Physics and Astronomy Departmental Work Experience for 17 Year Olds (AS The 20 places are available to 17 year old (AS/Year 12) students only, with the for year olds in the summer (Monday 6th - Friday 10th August), Please note that, due to the high volume of applications we receive, we may not. Advice for Physics. Note: VCE = Victorian Certificate of Education I have not completed year 12 physics, which units can I select? Even if you have not.

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