

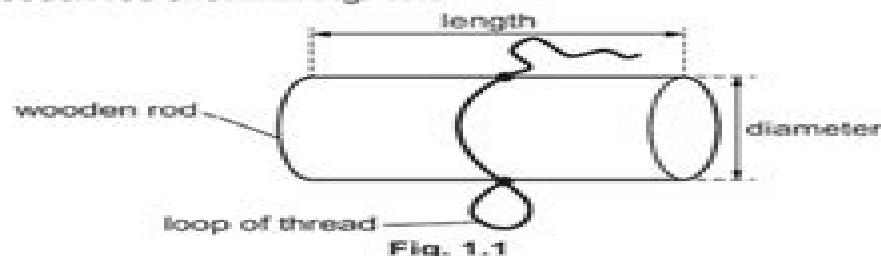
IGCSE PHYSICS PAPER 6 WORKSHEET - DENSITY EXPERIMENT

Name: Model Answers

Date: 12 July 2023

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- 1 A student is determining the density of wood by two methods. He is using the wooden rod shown in Fig. 1.1.



Method 1

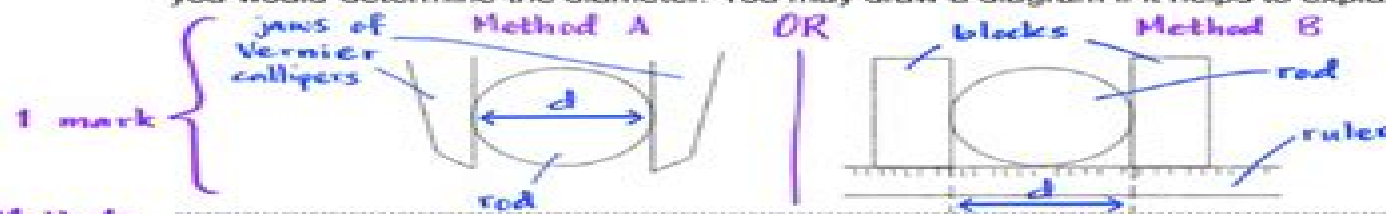
The dimensions of the wooden rod are shown full size in Fig. 1.2.



- (a) (i) Measure the length l and the diameter d of the wooden rod in Fig. 1.2.

$l = 4.5$ cm
 $d = 2.0$ cm
 1 mark: Both correct
 1 mark: Both to 1 d.p. [2]

- (ii) Suggest an accurate method for measuring the diameter of the wooden rod in this experiment. List any additional apparatus that might be required and briefly describe how you would determine the diameter. You may draw a diagram if it helps to explain your answer.



For Methods A OR B:

Measure d as shown above at several places along the rod and take the average. (1 mark) [2]

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OR Method C: Wrap a string around the rod several times. Measure its length and divide by the number of turns. Calculate d from this circumference, c ($d = \frac{c}{\pi}$).

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