

# WAKISSHA

## MARKING GUIDE

Uganda Certificate of Education

PHYSICS 535/3

1. Experiment to determine the mass of a metre rule.

$G = 49.8 \text{ cm X}$

$= 2.0 \text{ cm d} =$

$27.9 \text{ cm dl} =$

$19.9 \text{ cm}$

TABLE OF RESULTS

x (cm)	d (cm)	d l (cm)
2.0	27.9	19.9
4.0	26	19.0
6.0	25	18.2
8.0	24.3	17.5
10.0	23.3	16.5
12.0	22.0	15.8

$m =$

$1001)$

where  $D$

$= 0.67$

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$1.04$   
 $0.8$   $0.30$   
 $1.4$   $0.13$   
 $2.0$   $1.24$   
 $2.0$   $1.7$   
 $3.0$   $2.1$   
 $3.8$   $2.3$



- Soft board
- 4 drawing pins
- 4 optical pins
- Geometry set
- White sheet of paper ..

2. Experiment to determine the refractive index of a block of glass using Snell's law  $i = 100$

TABLE OF RESULTS

	LQ (cm)	MR (cm)
10	0.5	0.4
20	1.4	0.9
30		1.3
40	2.5	1.7
50	3.0	2.1
60	3.5	2.5

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g

DTDI  $\angle$

,4- $\pi$ 羽 R

3. Experiment to determine the relation between the potential difference causing current to flow through a uniform wire and the length of wire through which it flows.

10 0.18A v/  
D = 80.0cm

TABLE OF RESULT ✓

d (cm)	V (v) ✓
100.0	1.20
80.0	0.95
60.0	0.70 ✓
40.0	0.50
20.0	0.25



END

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