MOMEN TS.

EXPERIMENT TO YERIFY THE LAW OF MOMENTS.

-d,	- da motor
-m,	A to I wana.
	knije edge.

V The meter rule is balanced on the knife edge at its midpoint.

V masses M, and M2 are suspended such that M, is on one side of the fulcrum and M2 on the other side.

r The positions of M, and Ma are adjusted till the ruler is in equilibrium in a horizontal position.

V The distances of, (from M, to fulcium) and de (from M, to fulcium) are read and recorded.

Vithe experiment is repeated using different sets of masses.

The results are tabulated in a Suitable table including values of Mid, and Mada.

VIt is observed that Mid = Mids. Hence verifying the law of moments.

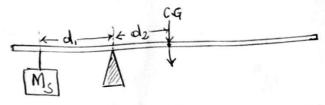
Table.

M, (9) M2(9) dr(cm) d2(cm)

-	7 31	1412 (5)		my ungten	
M,(9)	M2(9)	$d_i(cm)$	da(cm)	M,d, (9cm)	Mada (gem)
50	100			A	
100	200				
150	300	- 1	- 1		
200	400	- 1	- 1		- 1
250	500		- 1		
	1989	- 1		1	

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betermining Mass of the metre rule using standard mass.



The metre rule is balanced on the Knife edge and the antimeter mark is recorded at the balance. (This is the centre of gravity)

one end of the meter rule.

V The meter rule is adjusted until it balances horizontally.

V The distances d, and a do from the pivote are to the mass and to the centre of gravity mark respectively are recorded.

Vihe experiment is repeated for other

Values of Ms. V The results are tabulated including

Values of Msd, ... VA graph of Msd, against de is ploted.

V The slope is determined die Stope, s = A Midi = mass of The metre rule.

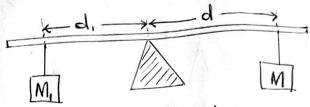
Table of results.

@ mercindust.

Ms(g)	d,(cm)	de (cm)	Msd,
100	100	111 1	1
200			
300		15-	1 VE 8
400			2.5.
50D			10.
			9

MOMENTS.

betermining the unknown mass using a metre rule and a standard mass.



The metre rule is balanced horizontally on the Knife edge.

V Masses M and M, are suspended on the sides of the metre rule with the pivot in the middle.

V The distances are adjusted for the system to balance again.

V The distances d and of, are measured and recorded from the pivot to the unknessian mass M and M, respectively.

V The result are tabulated including values of Mad.

v A graph of Mol, against of is ploted.

VThe slope is oletermined.

Slope s, = AM,d1

Thus the slope is the mass of required

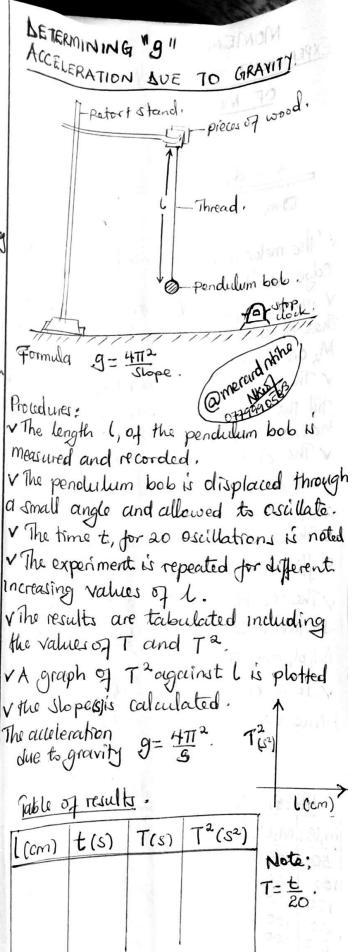
graph.

Mal 1 d(cm)
Table of results.



M, d,

M, (9)	di(cm)	dccmi	midi (gcm)
100			1130)
200			
300			
400			
500		- 1	



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