NAME:		FORM:	
	PHYSICS PRACTICAL		

TITLE: Moments

AIM: To determine the weight of an unknown object

APPARATUS & MATERIALS:

metre rule unknown object

retort stand ` pivot

150 g masses string

DIAGRAM:

METHOD:

- 1. Place the ruler onto the pivot at its centre of gravity (50 cm mark) so that it balances.
- 2. Set up the experiment as shown in the diagram with the 150 g at the 10 cm mark and the unknown object on the metre rule on other side of the pivot.
- 3. Adjust the 150g masses until the system is in equilibrium (balanced).
- 4. Record the graduation mark of the unknown object and calculate distance (d) at which the unknown object is from the pivot.
- 5. Repeat the experiment by placing the 150g masses at the 20cm, 30 cm and the 40 cm mark.
- 6. Calculate the weight of the unknown object by using the principle of moments.

<u>IETH(</u>	OD (Past Tense):
1.	Define the moment of a force. State the formula and units.
2.	
	State the principle of moments and formula
	State the principle of moments and formula
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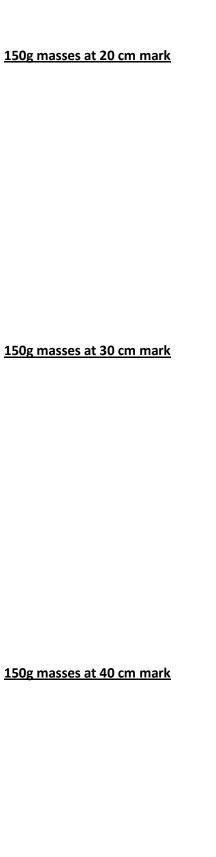
RESULTS:	
The weight of the 150g masses is	
Table Title:	

Graduation mark of 150g masses (cm)	Distance of 150g from pivot <i>(cm)</i>	Graduation mark of unknown object (cm)	Distance of unknown object from pivot (cm)
10			
20			
30			
40			

CALCULATIONS:

Calculate weight of the unknown object in each case. (Show diagrams for each one)

150g masses at 10 cm mark



The av	erage weight of the unknown object is	
		_
		_
		_
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CONCL	.USION:	
1.	What is the weight of the unknown object?	
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2.	State one precaution.	
3.	State one source of error.	