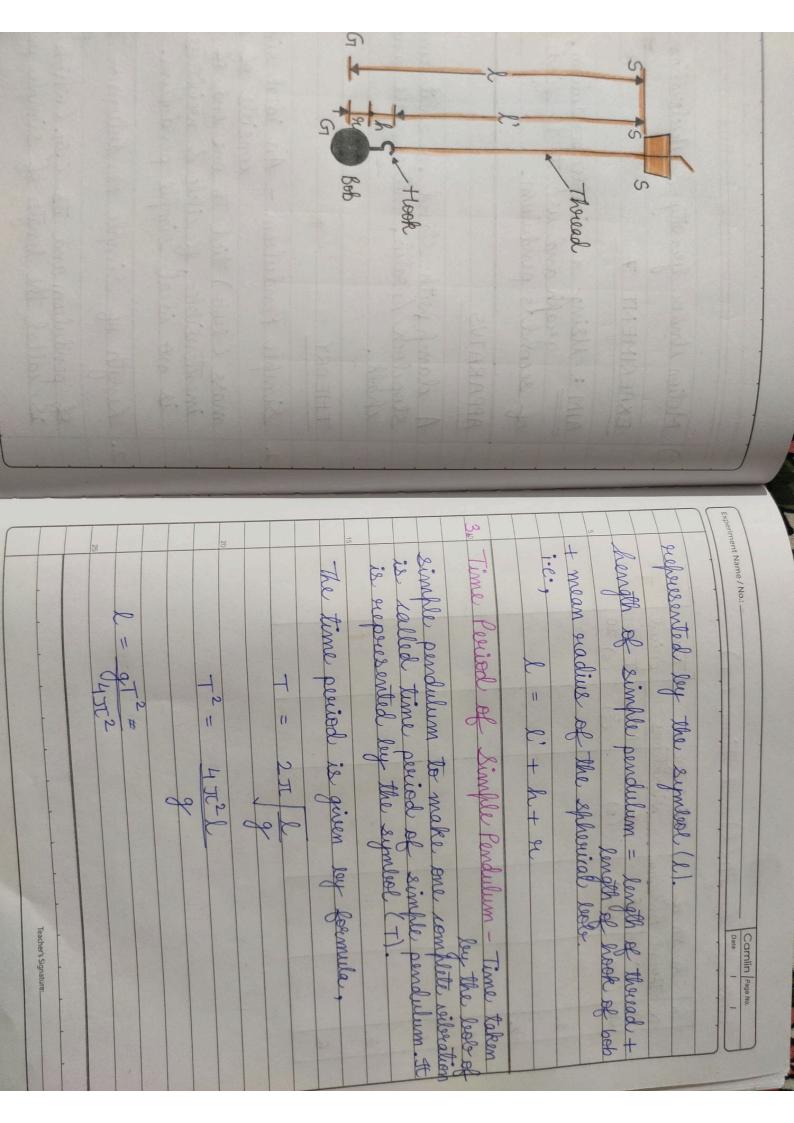
6 Motion Under Gravity & Acceleration due to Gravity EXPERIMENT 7 AIM: Using a simple pendulum, plot its L-T2
graph and use it to find effective length
of second's pendulum. APPARATUS A clamp with stand, a split cock, thread, bob, stopclock / watch, metre scale and a piece of thalk. THEORY Simple Pendulum - An ideal simple pendulum consists of a heavy point mass (look) tied to one end of perfectly inextensible flexible & weightless string. There is no ideal simple pendulum. 2. heigh of Simple Pendulum - The distance bloo of pendulum and its C.G. (which is C.G. of 1906) is called the length of simple pendulum. It is reacher's Signature:

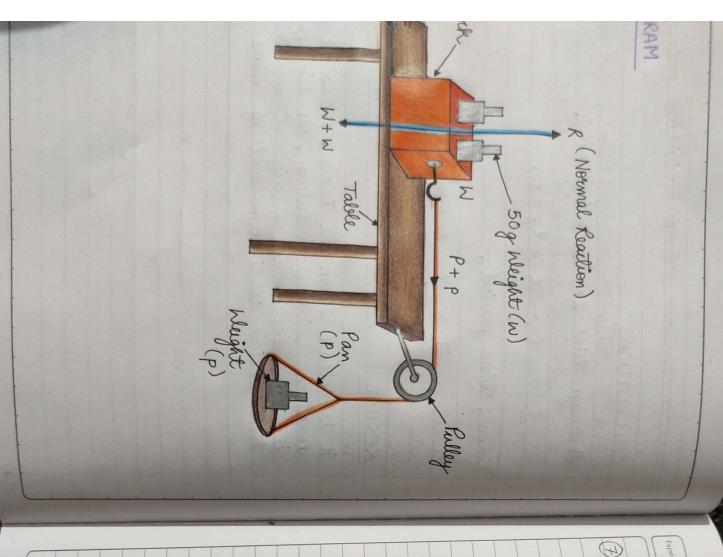


Teacher's Signature:	
Actual length = 24 = 100 cm	
RESULT	
$t = t_1 + t_2 + t_3$	
Dor each length, write mean time for 20	
CALCULATIONS	6.
Standard value of g = 980 cms-2	5
hength of hook of the look, h = in	4.
" Mean topphadius of the look, & - d -	çu
Mean Alssouved diameter, do = com	2.
(i) cm, (ii) cm, (iii) cm	1
Alessewed diameter of the look:	$\frac{1}{1000} \frac{1}{1000} \frac{1}{1000$
OBSERVATIONS	of Endulum reibeations period
Experiment Name / No.: Camilin / Page No.	lattle for hengen (b) and lime (T)

and

Experiment Name / No.: \_ Camlin | Page No. EXPERIMENT 8 AIM: To study variation of time period of a simple pendulum of a given length by taking bols of same size but different masses and interpret the result. APPARATUS A clamp with stand, a split work, thread, stopilork / watch, metre scale and pendulum bols of different masses. of different masses. The time period is given by formula, Teacher's Signature:

	Comin Page Mo.
Table to check the effect of boles of different	Experiment Name / No.:
S. Bob No. Radius Effective Time taken Paried of No. Rose of Simple scillations. To	Average time for 20 vibrations,
pendulum ti Ausage (s) 20 (L) (s) (s) (s)	$t = t_1 + t_2 + t_3$ Then time period,
1. First looks R1 =	
m, =	20
2. Sliend 1986 92 = 100.00  with mass.  m2 =	RESULT  At is clear ferom the table for some effective
3. Wied look no=	is same for looks of different masses i.e., time possed is independent of mass of looks
	20
	52
	Teacher's Signature:



& Sliding feurlion - It is the feurlion between two	THEORY	Mooden belock (with a hook on one side), 50 g or 20g points, horizontal plane (table top) fitted with a periodiss pulley at one and pan, spring lealance, thread, sprint level.	APPARATUS	AIM: To study the relationship between force of the find the hos-efficient of fecition between a solock and a horizontal surface.	EXPERIMENT 9	(2) Friction	Experiment Name / No:
leturen ture		fetted with a		seen force of resolution &			Carolin Page No.

Joseph Start sliding over a surface.

sliding motion.

for additional weights Force of fection At Aquilibrain. where OBSERVATIONS Weight of wooden block, wheight of pan. CALCULATIONS gives the value of force of sliding feuition. On horizontal surface total weights being pulled give normal reaction (2) Total weight (force) pullin these weights gives dynamic fecition A is normal reaction. 0 11 8 Wt Teacher's Signatur Camlin Page No.