

Lab #	Length of Thread		Time for 10 Oscillations				Period, period, $T = \frac{t}{n}$	g
	L_1	L_2	L_3	L_4	L_5	L_6		
1	0.10	0.10	0.10	0.10	0.10	0.10	1.4	9.8
2	0.20	0.20	0.20	0.20	0.20	0.20	1.4	9.8
3	0.30	0.30	0.30	0.30	0.30	0.30	1.4	9.8
4	0.40	0.40	0.40	0.40	0.40	0.40	1.4	9.8

1. Observe the mass diameter of the spherical bob. Find the mean value (D) of the bob.
2. Find the length L of the bob referred to the hole by ruler scale and record it.
3. Take a cotton thread about 1 meter long and tie in one end with the bob.
4. Let the masses $M_1, M_2, M_3, M_4, M_5, M_6$ be suspended at distances of 10 cm, 20 cm, 30 cm and 40 cm from the centre of gravity of the bob. These distances give effective length (L) of the simple pendulum.
5. Run the thread through the two hole parts of a card with the thread coming out just from 50 cm mark.
6. Tighten the two hole and place between the clamps.
7. Let the clamps in a stand kept in a table at least a height that the hole is just 2 cm above the swinging mass.
8. Hold a pair of on the stem just below the position of bob at rest (mean position).

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