

Physical Pendulum Lab

$$T = 2\pi \sqrt{\frac{I_{pp}}{mgd}}$$

$$I_{pp} = \frac{1}{12} mL^2 + md^2$$

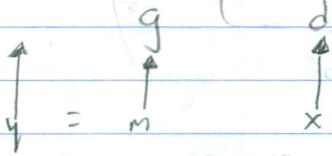
$$T^2 = 4\pi^2 \frac{\frac{1}{12} mL^2 + md^2}{mgd}$$

$$T^2 = 4\pi^2 \left(\frac{\frac{1}{12} L^2 + d^2}{gd} \right)$$

$$L = 1.00m$$

d = distance from center of mass

$$T^2 = \frac{4\pi^2}{g} \left(\frac{\frac{1}{12} L^2 + d^2}{d} \right)$$



d (m)	T (sec)	T^2 (sec ²)	x
0.15	1.335	1.782	0.706
0.25	1.545	2.387	0.583
0.50	1.641	2.693	0.667

See other graph

