

Physics Lab

Period _____

Name _____

Date _____

PENDULUM PANIC

Purpose _____

Diagram

Data Collection and Analysis

Trial	Mass (g)	Length (m)	Amplitude Angle (°)	Time for 10 cycles (s)	Period T (s)	Time for 10 cycles (s)	Period T (s)	Average Period T (s)	Frequency (Hz)
1	100	0.50	15						
2	200								
3	300								
4	150	0.25	15						
5		0.50							
6		1.0							
7	150	0.50	10						
8			15						
9			20						

Data Analysis

1. Find a_g .
2. Compare the period for each separate trial and explain your results.
3. Compare your experimental value of a_g with the theoretical value. What is your percent error?

	M	L	A	T	a_g
1	100	0.50	15		
2	200	0.50	15		
3	300	0.50	15		
4	150	0.25	15		
5	150	0.50	15		
6	150	1.0	15		
7	150	0.50	10		
8	150	0.50	15		
9	150	0.50	20		

Conclusion
