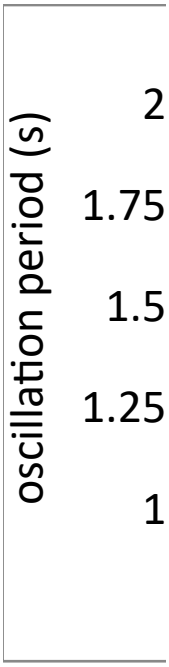
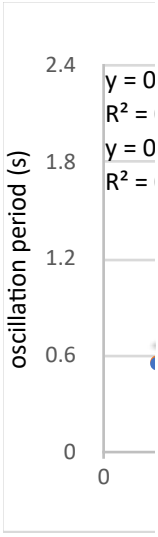
Experiment 1: Variable mass of bob (also slightly variable string length and bob shape)					
mass (g)	**string length (cm)**	**amplitude**	**time total (s)**	**period (s)**	
20	60.5	10°	15.28	1.528	
20	60.5	10°	15.44	1.544	
70	60.5	10°	15.47	1.547	
70	60.5	10°	15.37	1.537	
120	60.5	10°	15.37	1.537	
120	60.5	10°	15.44	1.544	
170	60.5	10°	15.22	1.522	
170	60.5	10°	15.37	1.537	
220	60.5	10°	15.32	1.532	
220	60.5	10°	15.35	1.535	
270	60.5	10°	15.09	1.509	
270	60.5	10°	15.28	1.528	
Experiment 2: Variable string length					
mass (g)	**string length (cm)**	**amplitude**	**time total (s)**	**period (s)**	
65	7.75	10°	5.53	0.553	
65	7.75	10°	5.63	0.563	
65	15.5	10°	7.51	0.751	
65	15.5	10°	7.59	0.759	
65	31	10°	10.43	1.043	
65	31	10°	10.53	1.053	
65	62	10°	14.5	1.45	
65	62	10°	14.63	1.463	
65	124	10°	20.56	2.056	
65	124	10°	20.56	2.056	
Experiment 3: Variable mass by keeping the shape and string length					
mass (g)	**string length (cm)**	**amplitude**	**time total (s)**	**period (s)**	
65	62	10°	14.5	1.45	
65	62	10°	14.63	1.463	
6	62	10°	14.35	1.435	
6	62	10°	14.47	1.447	

	Experiment 1: Values for plotting		
	mass (kg)	**time run 1 (s)**	**time run 2 (s)**
	20	1.528	1.544
	70	1.547	1.537
	120	1.537	1.544
	170	1.522	1.537
	220	1.532	1.535
	270	1.509	1.528
	Experiment 2: Values for plotting		
	string length (m)	**time run 1 (s)**	**time run 2 (s)**
	0.0775	0.553	0.563
	0.155	0.751	0.759
	0.31	1.043	1.053
	0.62	1.45	1.463
	1.24	2.056	2.056
	Experiment 3: Values for plotting		
	mass (g)	**time run 1 (s)**	**time run 2 (s)**
	65	1.45	1.463
	6	1.435	1.447





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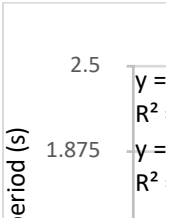

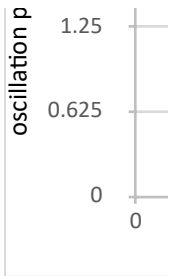

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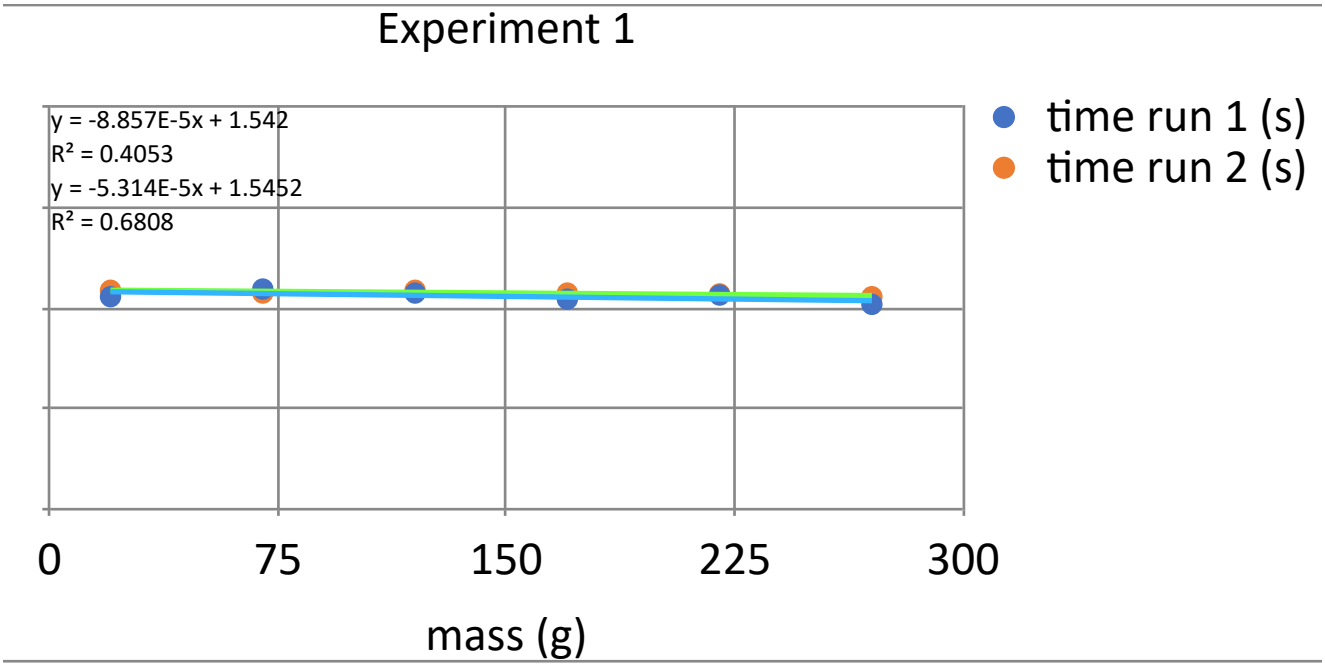
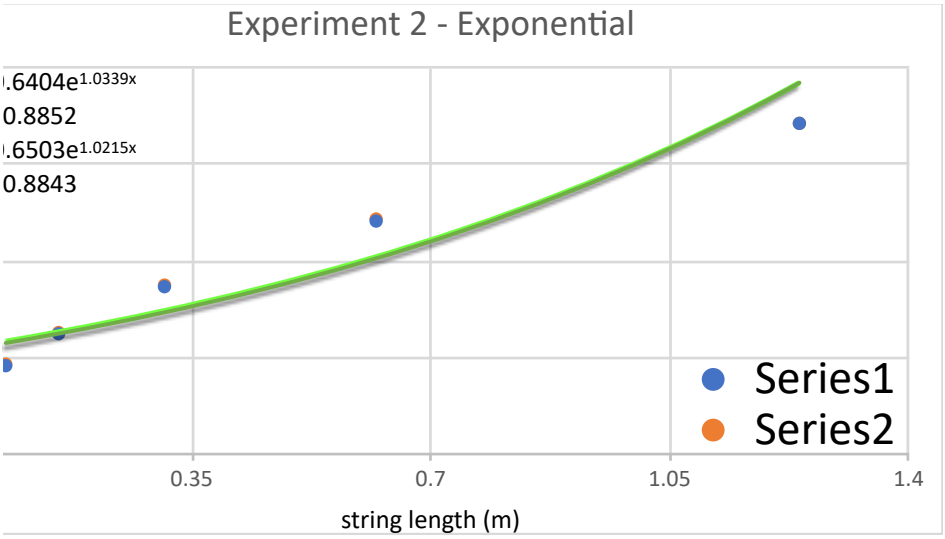
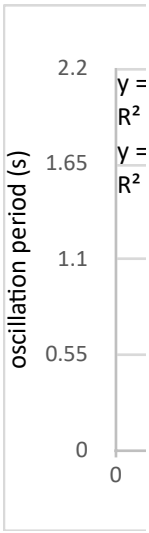


Fig 2. Oscillation period of a simple pendulum under variable bob masses





g 3. Oscillation period of a simple pendulum under variable string lengths, exponential trend line

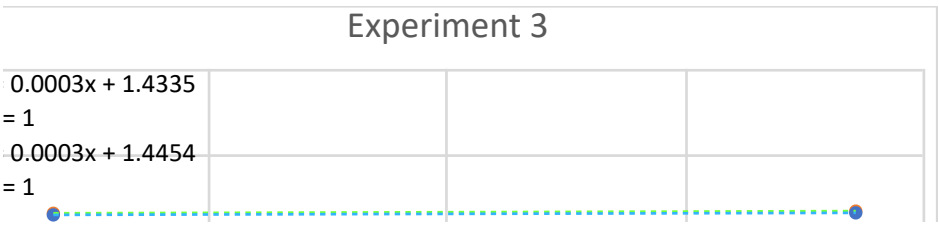


Fig 6. Oscillation period of a simple pendulum under variable mass and constant shape

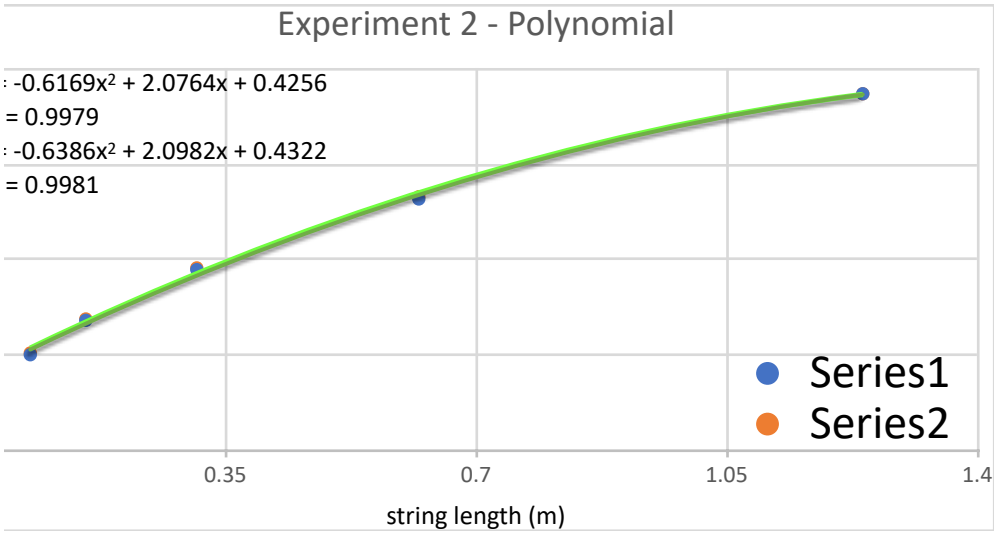


Fig 4. Oscillation period of a simple pendulum under variable string lengths, polynomial trend line

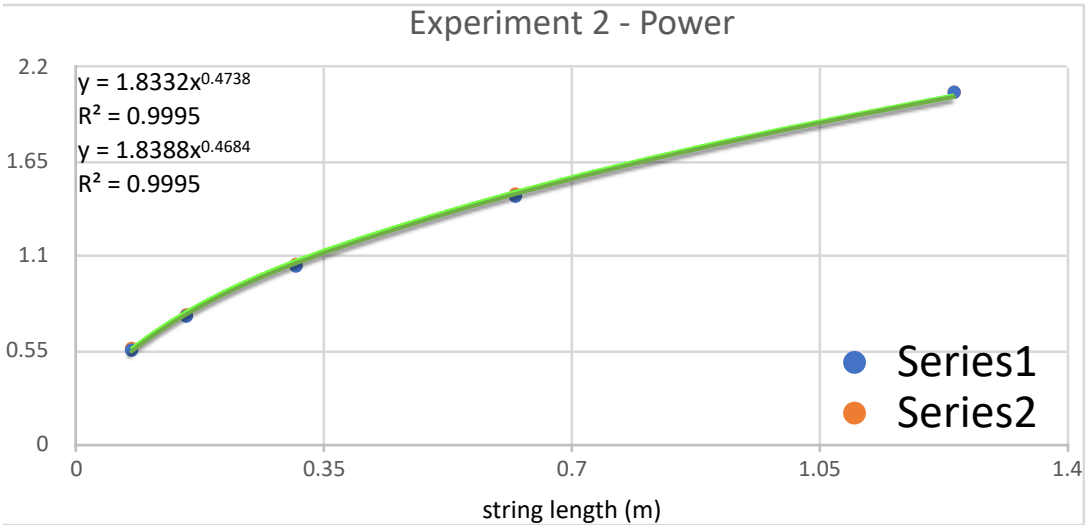


Fig 5. Oscillation period of a simple pendulum under variable string lengths, power trend line