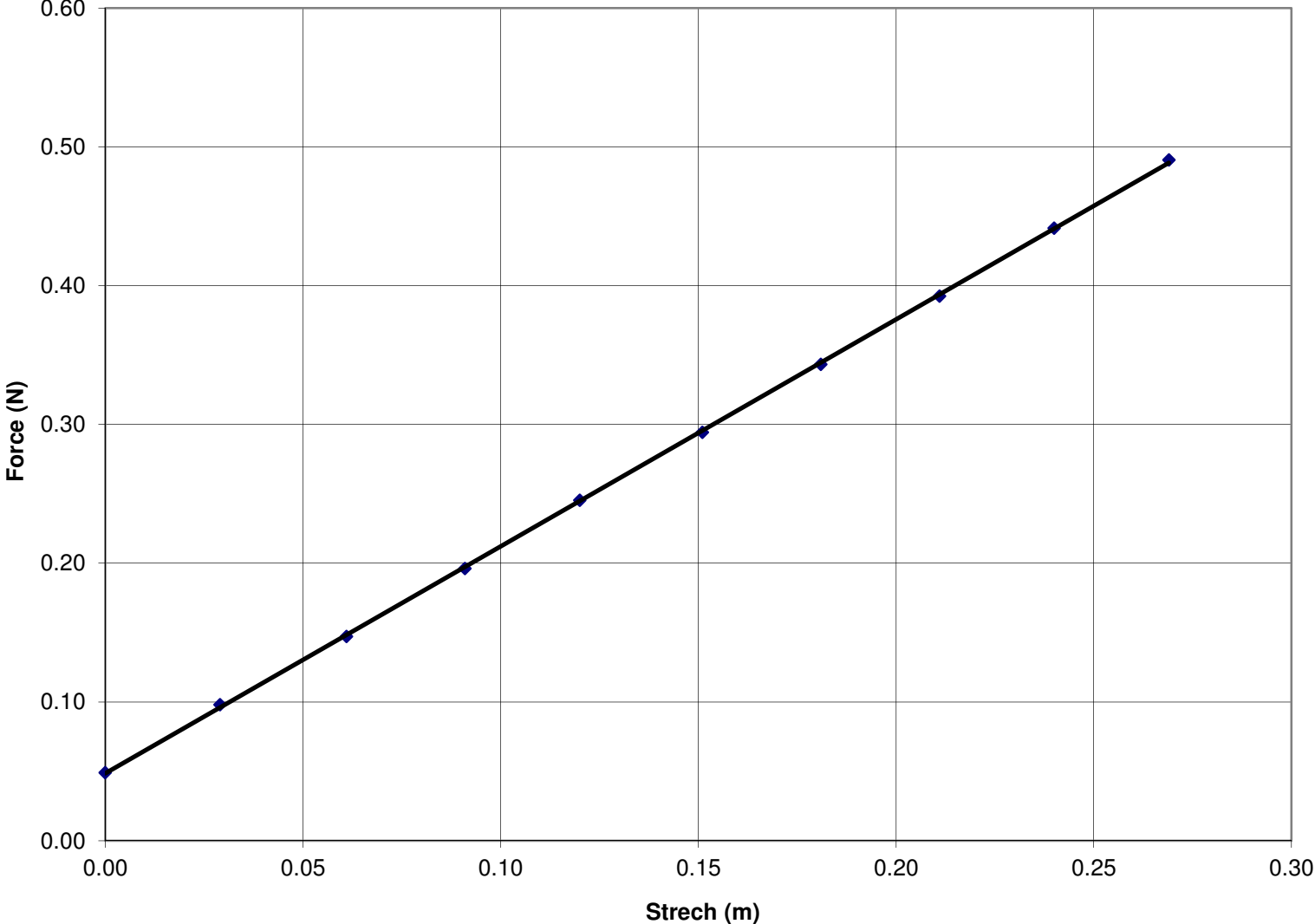


### Spring-Mass System Part I

Stretch= $ X_f - X_o $ (m)	$F = m \cdot g$ (N)
0	0.04905
0.029	0.0981
0.061	0.14715
0.091	0.1962
0.12	0.24525
0.151	0.2943
0.181	0.34335
0.211	0.3924
0.24	0.44145
0.269	0.4905

# Spring Mass - Part I

$$y = 1.6352x + 0.0485$$

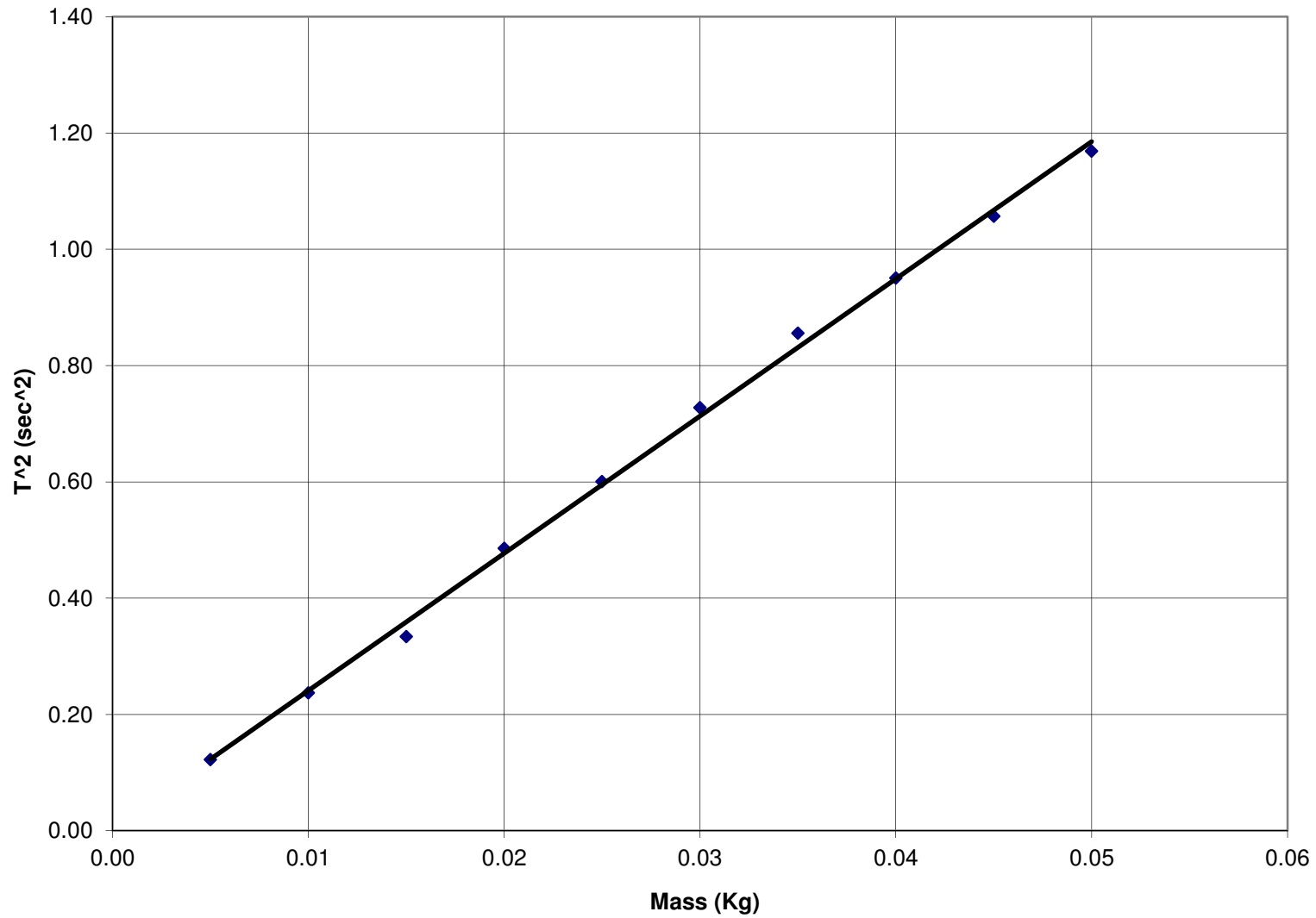


### Spring Mass (Part II)

Mass (Kg)	T <sup>2</sup> (sec <sup>2</sup> )
0.005	0.12
0.010	0.24
0.015	0.33
0.020	0.49
0.025	0.60
0.030	0.73
0.035	0.86
0.040	0.95
0.045	1.06
0.050	1.17

### Spring Mass - Part II

$$y = 23.601x + 0.0049$$



<b>Pendulum Motion</b>	
<b>Length (m)</b>	<b>T<sup>2</sup>(sec<sup>2</sup>)</b>
0.1	0.41
0.2	0.82
0.3	1.23
0.4	1.64
0.5	2.05
0.6	2.46
0.7	2.87
0.8	3.28
0.9	3.69
1	4.1

# Pendulum Motion

$y = 4.1x$

