FIGURE 2 **Conservation of Mechanical Energy Measuring the Spring Constant** 25 y = a + b*xEquation Displacement Plot -6.032 ± 0.410 Intercept 0.309 ± 0.005 Slope Residual Sum of Squares 0.707 Displacement (cm) 0.999 Pearson's r R-Square (COD) 0.997 Adj. R-Square 0.997 15 Displacement Best Fit of Displacement 10 45 50 55 60 65 85 95 70 80 90 100 105 75 **Trevor Swan** Hanging Mass (g) Adi Mallik