

Torque experiment (26 pts)

Prediction and explanation - 2 pts

Chart - 1 pt

Column headings and units - 1 pt

Two graphs - 4 pts

Axes labels and units - 2 pts

Regression lines - 2 pts

Functions - 2 pts

Derivations for F_L and F_R - 4 pts

Percents error - 2 pts

6a. A higher y-intercept - 1 pt

6b. The slope would double - 1 pt

6c. If the mass hangs outside the span between the two springs, the farther spring must push downward, applying a negative force - 2 pts

6d. Derivations for F_L' and F_R' - 2 pts