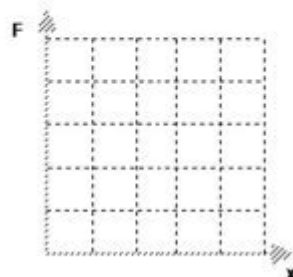


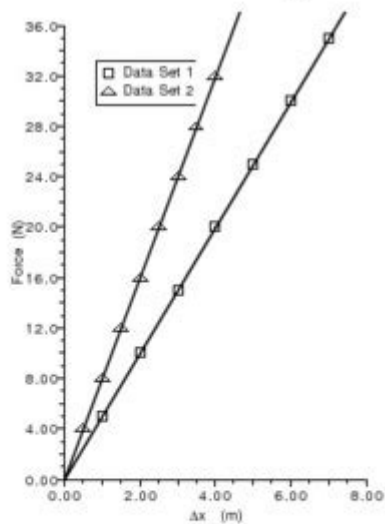
Name _____
 Period _____ Date _____

Unit VII ENERGY: WS 2 Hooke's Law, E_{el}

Suppose in the lab one group found that $F = 1000 \frac{N}{m} (\Delta x)$. Construct a graphical representation of force vs. displacement. (Hint: make the maximum displacement 0,25 m.)



1. Graphically determine the amount of energy stored while stretching the spring described above from $x = 0$ to $x = 10$ cm.
2. Graphically determine the amount of energy stored while stretching the spring described above from $x = 15$ to $x = 25$ cm.



The graph at left was made from data collected during an investigation of the relationship between the amount two different springs stretched, when different forces were applied.

3. For each spring determine the spring constant.
4. For each spring, compare
 - a. the amount of force required to stretch the spring 3.0 m.
 - b. the E_{el} stored in each spring when stretched 3.0 m.

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Answers can be considered as without difficulty as chosen to act.

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