

Forces and Elastic Potential Energy Extensions

Using the formulae: $F = ke$ and $E_e = \frac{1}{2}ke^2$

1. A spring is stretched by 0.3m and has a spring constant of 10N/m. Calculate the force.

F: $F = ke$

W: $F = 10 \times 0.3$

A + U: 30N

Remember to follow the process:
F: Write down the Formula
W: Show your Working out
A+U: Write the Answer with Units

2. Calculate the spring constant for a spring that is stretched by 0.03m by a force of 10N.

F: $F = ke$

W: $k = F/e$ _____

A + U: 333.33N/m

3. Calculate the spring constant for a spring that is squashed by 5cm by a force of 1000N.

F: $k = F/e$ _____

W: $k = 1000/0.05$ _____

A + U: 20 000N/m

4. Calculate the extension of a 10cm spring that has a spring constant of 25 000 N/m and a force of 2500N applied.

F: $e = F/k$ _____

W: $e = 2500/25000$ _____

A + U: 0.1m

5. A piece of foam, of thickness 10cm, is squashed by a force of 750N. It has a spring constant of 10 000N/m. What is its new size?

F: $e = F/k$ _____

W: $e = 750/10000 = 0.075m$ _____

A + U: $0.1 - 0.075 = 0.025m$

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