

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: $k = 1\,000/0.05$

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: $e = 2500/25\,000$

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: $e = 750/10\,000 = 0.075m$

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

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Integrated Science Project Literacy (South Africa),1997

Pathways Through Science Pearson School,1992-06-01

Energy Worksheet Integrated Physics Pearson 2015: Bestsellers in 2023 The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels enthralling the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the fascinating narratives that have enthralled audiences this year. Energy Worksheet Integrated Physics Pearson 2015 : Colleen Hoover's "It Ends with Us" This touching tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover expertly weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can prevail. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This captivating historical fiction novel unravels the life of Evelyn Hugo, a Hollywood icon who defies expectations and societal norms to pursue her dreams. Reids compelling storytelling and compelling characters transport readers to a bygone era, immersing them in a world of glamour, ambition, and self-discovery. Discover the Magic : Delia Owens "Where the Crawdads Sing" This captivating coming-of-age story follows Kya Clark, a young woman who grows up alone in the marshes of North Carolina. Owens crafts a tale of resilience, survival, and the transformative power of nature, captivating readers with its evocative prose and mesmerizing setting. These popular novels represent just a fraction of the literary treasures that have emerged in 2023. Whether you seek tales of romance, adventure, or personal growth, the world of literature offers an abundance of captivating stories waiting to be discovered. The novel begins with Richard Popen, a bright but troubled young man, arriving at Hampden College. Richard is immediately drawn to the group of students who call themselves the Classics Club. The club is led by Henry Winter, a brilliant and charismatic young man. Henry is obsessed with Greek mythology and philosophy, and he quickly draws Richard into his world. The other members of the Classics Club are equally as fascinating. Bunny Corcoran is a wealthy and spoiled young man who is always looking for a good time. Charles Tavis is a quiet and reserved young man who is deeply in love with Henry. Camilla Macaulay is a beautiful and intelligent young woman who is drawn to the power and danger of the Classics Club. The students are all deeply in love with Morrow, and they are willing to do anything to please him. Morrow is a complex and mysterious figure, and he seems to be manipulating the students for his own purposes. As the students become more involved with Morrow, they begin to commit increasingly dangerous acts. The Secret History is a masterful and thrilling novel that will keep you speculating until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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