

Name: _____ Date: _____ Period: _____

Gravitational Potential Energy Practice Problems

1. A man with a mass of 80 kg is standing on the edge of a table that is 1.5 meters above the ground. What is the man's potential energy?

$$GPE = mgh = 80 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1.5 \text{ m} = \boxed{1,176 \text{ J}}$$

2. A high jumper clears a vertical distance of 2.45 m, and at the top of his trajectory his potential energy was 1590 J. What is the jumper's mass?

$$1590 \text{ J} = m \times 9.8 \text{ m/s}^2 \times 2.45 \text{ m}$$

$$\boxed{m = 66.2 \text{ kg}}$$

3. A city is situated 4080 m above sea level. If a car with a mass of 905 kg is driven from a location that is 1860 m above sea level to the city, what is the increase in potential energy?

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 4080 \text{ m} = 36,185,520 \text{ J}$$

$$905 \text{ kg} \times 9.8 \text{ m/s}^2 \times 1860 \text{ m} = 16,496,340 \text{ J}$$

$$36,185,520 \text{ J} - 16,496,340 \text{ J} = \boxed{19,689,180 \text{ J}}$$

4. A 3.0 kg bowling ball is pushed down a 15 m high ramp. What is the potential energy of the bowling ball at the top of the ramp, in the middle of the ramp, and at the bottom of the ramp?

$$\text{Top} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 15 \text{ m} = \boxed{441 \text{ J}}$$

$$\text{Middle} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 7.5 \text{ m} = \boxed{220.5 \text{ J}}$$

$$\text{Bottom} = 3 \text{ kg} \times 9.8 \text{ m/s}^2 \times 0 \text{ m} = \boxed{0 \text{ J}}$$

5. What relationship exists between gravitational potential energy and the height above the ground? Why?

As height $\uparrow$, GPE $\uparrow$
As height $\downarrow$, GPE $\downarrow$

Challenge

6. A 2.0 kg rock is nudged off the edge of a 20 m ledge. At some point during the fall, the rock has lost 250 J of potential energy. At what height does this occur?

$$GPE = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times 20 \text{ m} = 392 \text{ J}$$

$$392 \text{ J} - 250 \text{ J} = 142 \text{ J}$$

$$142 \text{ J} = mgh = 2 \text{ kg} \times 9.8 \text{ m/s}^2 \times h$$

$$\boxed{h = 7.29 \text{ m}}$$

Energy Practice Problems With Key

Hussin A.Rothana



Energy Practice Problems With Key:

Energy Practice Problems With Key: Bestsellers in 2023 The year 2023 has witnessed a remarkable surge in literary brilliance, with numerous captivating novels enthralling the hearts of readers worldwide. Lets delve into the realm of bestselling books, exploring the captivating narratives that have charmed audiences this year. The Must-Read : Colleen Hoover "It Ends with Us" This poignant tale of love, loss, and resilience has gripped readers with its raw and emotional exploration of domestic abuse. Hoover masterfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can triumph. Uncover the Best : Taylor Jenkins Reids "The Seven Husbands of Evelyn Hugo" This intriguing 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 top-selling 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 engaging stories waiting to be discovered. The novel begins with Richard Papen, 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 brilliant and suspenseful novel that will keep you speculating until the very end. The novel is a cautionary tale about the dangers of obsession and the power of evil.

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