

Work, Energy, Power Test Review

Learning Goals and Concepts:

1. Work - I can:
 - ✓ explain the different cases of work including 3 scenarios when work = 0
 - ✓ describe positive and negative work and how this affects the energy of a system
 - ✓ solve problems for work done by a constant force using $W = F \times \Delta d$
 - ✓ solve work problems when the force acts an angle using $W = F \cos\theta \times \Delta d$
2. Forms of Energy - I can:
 - ✓ define energy and provide examples of different forms
 - ✓ explain energy transformations
 - ✓ solve kinetic energy problems using the formula $E_k = \frac{1}{2}mv^2$
 - ✓ solve work-kinetic energy problems using $W = \Delta E_k = E_{k2} - E_{k1}$
 - ✓ solve gravitational potential energy problems using $E_p = mg\Delta h$
 - ✓ solve problems using work-gravitational energy theorem of $W = \Delta E_p = mg\Delta h$
3. Conservation of Energy - I can:
 - ✓ describe the first 2 laws of thermodynamics
 - ✓ identify problems where total mechanical energy is conserved and when it is not based on conservative and non-conservative forces
 - ✓ identify energy forms in a given problem and relate to total mechanical energy
 - ✓ solve problems when total mechanical energy is conserved using kinematics formulas and:
$$E_T = E_p + E_k \qquad E_T = mg\Delta h + \frac{1}{2}mv^2$$
 - ✓ solve problems when friction is present and energy is lost by calculating the work by: $W_{nc} = E_{final} - E_{initial}$
4. Power - I can:
 - ✓ explain what power is
 - ✓ solve problems using $P = \frac{W}{\Delta t}$ and $P = \frac{E}{\Delta t}$
 - ✓ convert Watts into hp
 - ✓ convert energy usage from Joules into kW·h
5. Thermal Energy - I can:
 - ✓ explain what thermal energy is and how heat is transferred
 - ✓ calculate thermal energy generated using $Q = mc\Delta T$
 - ✓ convert temperatures from Celsius to Kelvin where $T = T_c + 273.15$
6. Efficiency - I can:
 - ✓ compare the energy into a system to what is produced or converted
 - ✓ calculate efficiency as a ratio (percentage) using $Efficiency = \frac{E_o}{E_i} \times 100\%$ or $Efficiency = \frac{W_o}{W_i} \times 100\%$
7. Energy Sources - I can:
 - ✓ describe the difference between traditional and alternative energy sources
 - ✓ explain main advantages and disadvantages associated with each source
8. Overall I can:
 - ✓ show all of my work and round answers to the correct # of sig. digs. and account for direction as needed

Suggested Review Problems:

Ch.5 pg. 253 #6, 14-29 and Ch. 6 pg. 317 #32, 33, 36, 38-40, 42, 43

Work Energy And Power Webquest Answer Key

RD Boyd



Work Energy And Power Webquest Answer Key:

The Top Books of the Year Work Energy And Power Webquest Answer Key The year 2023 has witnessed a noteworthy surge in literary brilliance, with numerous engrossing novels captivating the hearts of readers worldwide. Lets delve into the realm of popular books, exploring the captivating narratives that have enthralled audiences this year. Work Energy And Power Webquest Answer Key : Colleen Hoover's "It Ends with Us" This heartfelt tale of love, loss, and resilience has captivated readers with its raw and emotional exploration of domestic abuse. Hoover skillfully weaves a story of hope and healing, reminding us that even in the darkest of times, the human spirit can succeed. Work Energy And Power Webquest Answer Key : Taylor Jenkins Reid's "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. Reid's captivating 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 weaves a tale of resilience, survival, and the transformative power of nature, entrancing readers with its evocative prose and mesmerizing setting. These bestselling 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 compelling 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 an exceptional and suspenseful novel that will keep you wondering until the very end. The novel is a warning tale about the dangers of obsession and the power of evil.

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