

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

Marcel A. Müller



Work Energy And Power Webquest Answer Key:

This book delves into Work Energy And Power Webquest Answer Key. Work Energy And Power Webquest Answer Key is a vital topic that needs to be grasped by everyone, ranging from students and scholars to the general public. This book will furnish comprehensive and in-depth insights into Work Energy And Power Webquest Answer Key, encompassing both the fundamentals and more intricate discussions.

1. This book is structured into several chapters, namely:

- Chapter 1: Introduction to Work Energy And Power Webquest Answer Key
- Chapter 2: Essential Elements of Work Energy And Power Webquest Answer Key
- Chapter 3: Work Energy And Power Webquest Answer Key in Everyday Life
- Chapter 4: Work Energy And Power Webquest Answer Key in Specific Contexts
- Chapter 5: Conclusion

2. In chapter 1, this book will provide an overview of Work Energy And Power Webquest Answer Key. This chapter will explore what Work Energy And Power Webquest Answer Key is, why Work Energy And Power Webquest Answer Key is vital, and how to effectively learn about Work Energy And Power Webquest Answer Key.

3. In chapter 2, this book will delve into the foundational concepts of Work Energy And Power Webquest Answer Key. This chapter will elucidate the essential principles that must be understood to grasp Work Energy And Power Webquest Answer Key in its entirety.

4. In chapter 3, this book will examine the practical applications of Work Energy And Power Webquest Answer Key in daily life. This chapter will showcase real-world examples of how Work Energy And Power Webquest Answer Key can be effectively utilized in everyday scenarios.

5. In chapter 4, this book will scrutinize the relevance of Work Energy And Power Webquest Answer Key in specific contexts. The fourth chapter will explore how Work Energy And Power Webquest Answer Key is applied in specialized fields, such as education, business, and technology.

6. In chapter 5, the author will draw a conclusion about Work Energy And Power Webquest Answer Key. The final chapter will summarize the key points that have been discussed throughout the book.

This book is crafted in an easy-to-understand language and is complemented by engaging illustrations. This book is highly recommended for anyone seeking to gain a comprehensive understanding of Work Energy And Power Webquest Answer Key.

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