POGIL: Work, Power, and Kinetic Energy

Purpose

To become familiar with work, power, and kinetic energy and the relationship between each of them.

Part 1: Work and Power

Let's define two quantities, work and power, that will be useful for explaining the motion of objects. We will define work done by a force as:

work done by a force = amount of force along direction of motion × distance moved.

Using algebraic symbols, we will write this equation as:

$$W = Ed$$
.

Note the following regarding the sign of the work done:

- if the force is along the direction of motion, the work done by the force is positive
- if the force is opposite the direction of motion, the work done by the force is negative
- if the force is perpendicular to the direction of motion, the force does zero work.

If the force is in Newtons and the distance is in meters, then the unit of work is Joules (abbreviated J).

Power is the rate at which work is done. We can define the average power as:

average power = work/time required to do the work.

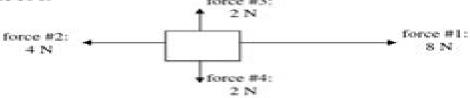
or, using algebraic symbols:

$$P = \frac{W}{t}$$
.

If work is measured in Joules and the time is measured in seconds, then we can use the unit Watts (abbreviated W) for power.

Critical Thinking Questions, part 1

 In the diagram below, several forces are acting on the box as it moves 5 m to the right in a time of 10 s.



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Table of Contents Pogil Save Energy This Means You

- 1. Understanding the eBook Pogil Save Energy This Means You
 - The Rise of Digital Reading Pogil Save Energy This Means You
 - Advantages of eBooks Over Traditional Books
- 2. Identifying Pogil Save Energy This Means You
 - Exploring Different Genres
 - Considering Fiction vs. Non-Fiction
 - Determining Your Reading Goals
- 3. Choosing the Right eBook Platform
 - Popular eBook Platforms
 - Features to Look for in an Pogil Save Energy This Means You
 - User-Friendly Interface
- 4. Exploring eBook Recommendations from Pogil Save Energy This Means You

- Personalized Recommendations
- Pogil Save Energy This Means You User Reviews and Ratings
- Pogil Save Energy This Means You and Bestseller Lists
- 5. Accessing Pogil Save Energy This Means You Free and Paid eBooks
 - Pogil Save Energy This Means You Public Domain eBooks
 - Pogil Save Energy This Means You eBook Subscription Services
 - Pogil Save Energy This Means You Budget-Friendly Options
- 6. Navigating Pogil Save Energy This Means You eBook Formats
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- 7. Enhancing Your Reading Experience
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- 8. Staying Engaged with Pogil Save Energy This Means You
 - o Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Pogil Save Energy This Means You
- 9. Balancing eBooks and Physical Books Pogil Save Energy This Means You
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Pogil Save Energy This Means You
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Pogil Save Energy This Means You
 - Setting Reading Goals Pogil Save Energy This Means You
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Pogil Save Energy This Means You

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- Distinguishing Credible Sources
- 13. Promoting Lifelong Learning
 - Utilizing eBooks for Skill Development
 - Exploring Educational eBooks
- 14. Embracing eBook Trends
 - Integration of Multimedia Elements
 - Interactive and Gamified eBooks

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