

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 $\times$ distance moved.

Using algebraic symbols, we will write this equation as:

$$W = Fd.$$

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

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
 - ePub, PDF, MOBI, and More
 - Pogil Save Energy This Means You Compatibility with Devices
 - Pogil Save Energy This Means You Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Pogil Save Energy This Means You
 - Highlighting and Note-Taking Pogil Save Energy This Means You
 - Interactive Elements Pogil Save Energy This Means You
- 8. Staying Engaged with Pogil Save Energy This Means You
 - 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

- Fact-Checking eBook Content of Pogil Save Energy This Means You
- 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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