

POTENTIAL AND KINETIC ENERGY

Name _____

Potential energy is stored energy due to position. Kinetic energy is energy that depends on mass and velocity (movement).

Potential Energy = Weight x Height (P.E. = $w \times h$)

Kinetic Energy = $\frac{1}{2}$ Mass x Velocity² (K.E. = $\frac{1}{2}mv^2$)

The units used are:

Energy = joules

Weight = newtons

Height = meters

Mass = kilograms

Velocity = m/s

For a closed system, the sum of the potential energy and the kinetic energy is a constant. As the potential energy decreases, the kinetic energy increases.

Solve the following problems.

1. What is the potential energy of a rock that weighs 100 newtons that is sitting on top of a hill 300 meters high?

Answer: _____

2. What is the kinetic energy of a bicycle with a mass of 14 kg traveling at a velocity of 3 m/s?

Answer: _____

3. A flower pot weighing 3 newtons is sitting on a windowsill 30 meters from the ground. Is the energy of the flower pot potential or kinetic? How many joules is this?

Answers: _____

4. When the flower pot in Problem 3 is only 10 meters from the ground, what is its potential energy?

Answer: _____

5. How much of the total energy in Problems 3 and 4 has been transformed to kinetic energy?

Answer: _____

6. A 1200 kg automobile is traveling at a velocity of 100 m/s. Is its energy potential or kinetic? How much energy does it possess?

Answers: _____

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Table of Contents **Physical Science If8767 61 Answers**

1. Understanding the eBook **Physical Science If8767 61 Answers**
 - The Rise of Digital Reading **Physical Science If8767 61 Answers**
 - Advantages of eBooks Over Traditional Books
2. Identifying **Physical Science If8767 61 Answers**
 - 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 a **Physical Science If8767 61 Answers**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **Physical Science If8767 61 Answers**
 - Personalized Recommendations
 - **Physical Science If8767 61 Answers** User Reviews and Ratings
 - **Physical Science If8767 61 Answers** and Bestseller Lists

5. Accessing Physical Science If8767 61 Answers Free and Paid eBooks
 - Physical Science If8767 61 Answers Public Domain eBooks
 - Physical Science If8767 61 Answers eBook Subscription Services
 - Physical Science If8767 61 Answers Budget-Friendly Options
6. Navigating Physical Science If8767 61 Answers eBook Formats
 - ePub, PDF, MOBI, and More
 - Physical Science If8767 61 Answers Compatibility with Devices
 - Physical Science If8767 61 Answers Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science If8767 61 Answers
 - Highlighting and Note-Taking Physical Science If8767 61 Answers
 - Interactive Elements Physical Science If8767 61 Answers
8. Staying Engaged with Physical Science If8767 61 Answers
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science If8767 61 Answers
9. Balancing eBooks and Physical Books Physical Science If8767 61 Answers
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science If8767 61 Answers
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine Physical Science If8767 61 Answers
 - Setting Reading Goals Physical Science If8767 61 Answers
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of Physical Science If8767 61 Answers
 - Fact-Checking eBook Content of Physical Science If8767 61 Answers
 - 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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