

# 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 Velocity<sup>2</sup> (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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**DP Hallahan**





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## **Table of Contents Physical Science If8767 Page 61**

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

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