

Name: \_\_\_\_\_

## Work, Energy & Power Review Questions



1. An 80-kilogram student slides down a water slide at a constant speed of 15 m/s. What is the kinetic energy of the student?

$$KE = \frac{1}{2}mv^2 = \frac{1}{2}(80 \text{ kg})(15 \frac{\text{m}}{\text{s}})^2 = \boxed{9000 \text{ J}}$$

2. If the speed of a moving object is tripled, the kinetic energy of the object is x9.

$$9KE = \frac{1}{2}m(3v)^2$$

3. While playing with his new toy, Cameron runs a 15-kilogram RC car into a tree such that it loses 2,000 joules of kinetic energy. What was the speed of the car at the moment it began to slow down? Where did that energy go?

$$\Delta K = 2000 \text{ J} = \frac{1}{2}mv^2 \Rightarrow 4000 \text{ J} = mv^2 \Rightarrow v^2 = \frac{4000 \text{ J}}{15 \text{ kg}} \Rightarrow v^2 = 267 \frac{\text{m}^2}{\text{s}^2} \Rightarrow \boxed{v = 16.3 \frac{\text{m}}{\text{s}}}$$



4. While riding an elevator, a 70-kilogram woman is raised a vertical distance of 60 meters in a time of 8 seconds.

A) What force must the elevator apply to the woman to raise her?

$$F_{\text{net}} = mg = (70 \text{ kg})(9.81 \frac{\text{m}}{\text{s}^2}) = \boxed{686.7 \text{ N}}$$

B) How much work does the elevator do on the woman?

$$W = Fd = (686.7 \text{ N})(60 \text{ m}) = \boxed{41,202 \text{ J}}$$

C) How much power must the elevator apply to the woman?

$$P = \frac{W}{t} = \frac{41,202 \text{ J}}{8 \text{ s}} = \boxed{5150 \text{ W}}$$

D) What is the woman's change in gravitational potential energy?

$$\Delta PE_g = \boxed{41,202 \text{ J}}$$

E) Assume an energy tracking device determines that the actual energy used by the elevator to raise the woman was 50,000 joules. How could you explain the discrepancy?

8798 Joules of energy lost to friction (internal energy)

# Work Energy And Power Worksheet Answers

**George Graybill**



## **Work Energy And Power Worksheet Answers:**

**Force: Balanced & Unbalanced Forces Gr. 5-8** George Graybill,2015-10-01 This is the chapter slice Balanced Unbalanced Forces from the full lesson plan Force Forces are at work all around us Discover what a force is and different kinds of forces that work on contact and at a distance We use simple language and vocabulary to make this invisible world easy for students to see and understand Examine how forces add up to create the total force on an object and reinforce concepts and extend learning with sample problems Students will learn about balanced and unbalanced forces weight and gravity and magnetic and electrostatic forces and much more Written for remedial students in grades 5 to eight Reading passages activities for before and after reading and color mini posters make both teaching and learning a breeze Crossword Word Search comprehension quiz and test prep included All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives *Force: Force & Mass Gr. 5-8* George Graybill,2015-10-01 This is the chapter slice Force Mass from the full lesson plan Force Forces are at work all around us Discover what a force is and different kinds of forces that work on contact and at a distance We use simple language and vocabulary to make this invisible world easy for students to see and understand Examine how forces add up to create the total force on an object and reinforce concepts and extend learning with sample problems Students will learn about balanced and unbalanced forces weight and gravity and magnetic and electrostatic forces and much more Written for remedial students in grades 5 to eight Reading passages activities for before and after reading and color mini posters make both teaching and learning a breeze Crossword Word Search comprehension quiz and test prep included All of our content is aligned to your State Standards and are written to Bloom s Taxonomy and STEM initiatives *Force, Motion & Simple Machines Big Book Gr. 5-8* George Graybill,2007-09-01 Give your students a kick start on learning with our Force and Motion 3 book BUNDLE Students begin by exploring different Forces Conduct several experiments on the force of friction and air resistance Understand that acceleration and deceleration are examples of unbalanced forces Next take the mystery out of Motion Graph the velocity of students walking home from school at different speeds Follow directions to find your way using a treasure map Finally get familiar with Simple Machines Conduct an experiment with first class levers to study distance and force Find the resistance force when walking up an inclined plane Each concept is paired with hands on activities and experiments Aligned to the Next Generation State Standards and written to Bloom s Taxonomy and STEAM initiatives additional crossword word search comprehension quiz and answer key are also included *New Standards-Based Lessons for the Busy Elementary School Librarian* Joyce Keeling,2024-01-25 Helps busy elementary school librarians in the United States understand and apply the new AASL standards in collaboration with science teachers as well as the Next Generation Science Standards **Force Gr. 5-8** George Graybill,2007-09-01 Forces are at work all around us Our resource makes this invisible world easy to see and understand Start by identifying what a force is before looking at different kinds of forces Conduct several experiments on the force of

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## **Table of Contents Work Energy And Power Worksheet Answers**

1. Understanding the eBook Work Energy And Power Worksheet Answers
  - The Rise of Digital Reading Work Energy And Power Worksheet Answers
  - Advantages of eBooks Over Traditional Books
2. Identifying Work Energy And Power Worksheet 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 an Work Energy And Power Worksheet Answers
  - User-Friendly Interface
4. Exploring eBook Recommendations from Work Energy And Power Worksheet Answers
  - Personalized Recommendations
  - Work Energy And Power Worksheet Answers User Reviews and Ratings
  - Work Energy And Power Worksheet Answers and Bestseller Lists
5. Accessing Work Energy And Power Worksheet Answers Free and Paid eBooks

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