

Bryan-Science 8
Homework assignment – Answer key

Energy Calculations Worksheet

1. A shot putter heaves a 7.26kg shot with a final velocity of 7.5m/s. What is the kinetic energy of the shot?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$E_k = \frac{1}{2} \cdot 7.26\text{kg} \cdot (7.5\text{m/s})^2$$

$$E_k = 204.18 \text{ J}$$

2. What is the final velocity of a 5700kg truck, if 2 200 000J of energy is used to accelerate it?

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$2200000 = \frac{1}{2} \cdot 5700 \text{ kg} \cdot v^2$$

$$2200000 = 2850 \cdot v^2$$

$$2200000/2850 = v^2$$

$$v^2 = 771.93$$

$$v = 27.78\text{m/s}$$

3. A 2kg textbook is lifted from the floor to a shelf 2.10m above the floor.

- (a) What is the gravitational potential energy of the book relative to the floor?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 2.1\text{m}$$

$$E_p = 19.6 \cdot 2.1$$

$$E_p = 41.16 \text{ J}$$

- (b) What is its gravitational potential energy relative to the head of a 1.65m tall person?

$$E_p = m \cdot g \cdot h$$

$$E_p = 2 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot 1.65\text{m}$$

$$E_p = 2 \cdot 16.17$$

$$E_p = 32.34 \text{ J}$$

4. A bike rider approaches a hill with a speed of 8.5m/s. The total mass of the rider and the bike is 85kg.

- (a) Find the kinetic energy of the bike and rider.

$$E_k = \frac{1}{2} \cdot m \cdot v^2$$

$$E_k = \frac{1}{2} \cdot 85 \text{ kg} \cdot 8.5^2 \text{ m/s}$$

$$E_k = 32.5 \cdot (8.5\text{m/s})^2$$

$$E_k = 3070.63 \text{ J}$$

- (b) The rider coasts up the hill. Assuming there is no friction, at what height will the bike come to a stop?

$$3070.63 = 85 \text{ kg} \cdot 9.8\text{m/s}^2 \cdot h$$

$$3070.63 = 833 \cdot h$$

$$3070.63/833 = h$$

$$h = 3.69\text{m}$$

Physical Science 233

Roman Wölfel



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Table of Contents Physical Science 233

1. Understanding the eBook Physical Science 233
 - The Rise of Digital Reading Physical Science 233
 - Advantages of eBooks Over Traditional Books
2. Identifying Physical Science 233
 - 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 233
 - User-Friendly Interface
4. Exploring eBook Recommendations from Physical Science 233
 - Personalized Recommendations
 - Physical Science 233 User Reviews and Ratings
 - Physical Science 233 and Bestseller Lists
5. Accessing Physical Science 233 Free and Paid eBooks
 - Physical Science 233 Public Domain eBooks
 - Physical Science 233 eBook Subscription Services
 - Physical Science 233 Budget-Friendly Options
6. Navigating Physical Science 233 eBook Formats

-
- ePub, PDF, MOBI, and More
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 - Physical Science 233 Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Physical Science 233
 - Highlighting and Note-Taking Physical Science 233
 - Interactive Elements Physical Science 233
 8. Staying Engaged with Physical Science 233
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Physical Science 233
 9. Balancing eBooks and Physical Books Physical Science 233
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Physical Science 233
 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
 11. Cultivating a Reading Routine Physical Science 233
 - Setting Reading Goals Physical Science 233
 - Carving Out Dedicated Reading Time
 12. Sourcing Reliable Information of Physical Science 233
 - Fact-Checking eBook Content of Physical Science 233
 - 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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