

Energy Storage and Transfer Model Worksheet: Quantitative Energy Calculations & Energy Conservation

We use the table below each time we work a problem.

1. How much kinetic energy does a 1000 kg car have if it is moving at 10 m/s?

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(1000 \text{ kg})(10 \text{ m/s})^2 = 50,000 \text{ J}$$

2. How much energy does a 100 kg object have just before it starts falling from a height of 10 m?

$$U = mgh = (100 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 9800 \text{ J}$$

3. How much work is done by a 100 N force moving an object 10 m in the direction of the force? (The work done by the force is the same as the change in kinetic energy.)

$$W = Fd \cos \theta$$

or, the table

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0^\circ = 1000 \text{ J}$$

4. How much kinetic energy does a 100 kg object have if it is moving at 10 m/s?

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5000 \text{ J}$$

5. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0^\circ = 1000 \text{ J}$$

W is the same as the change in kinetic energy.

6. A spring is compressed 10 cm. How much work is done by the spring if it is released and the object is allowed to move?

$$W = \frac{1}{2}kx^2 = \frac{1}{2}(100 \text{ N/m})(0.1 \text{ m})^2 = 5 \text{ J}$$

7. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0^\circ = 1000 \text{ J}$$

8. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

A 100 N force is applied to a 100 kg object. How much work is done by the force?

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0^\circ = 1000 \text{ J}$$

U8 Energy Ws 4 V3 Answer Key

D Keegan

A red circular graphic with a gradient, appearing as a semi-circle or a partial circle, located to the right of the name 'D Keegan'.

U8 Energy Ws 4 V3 Answer Key:

Decoding **U8 Energy Ws 4 V3 Answer Key**: Revealing the Captivating Potential of Verbal Expression

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Table of Contents **U8 Energy Ws 4 V3 Answer Key**

1. Understanding the eBook **U8 Energy Ws 4 V3 Answer Key**
 - The Rise of Digital Reading **U8 Energy Ws 4 V3 Answer Key**
 - Advantages of eBooks Over Traditional Books
2. Identifying **U8 Energy Ws 4 V3 Answer Key**
 - 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 **U8 Energy Ws 4 V3 Answer Key**
 - User-Friendly Interface
4. Exploring eBook Recommendations from **U8 Energy Ws 4 V3 Answer Key**
 - Personalized Recommendations
 - **U8 Energy Ws 4 V3 Answer Key** User Reviews and Ratings
 - **U8 Energy Ws 4 V3 Answer Key** and Bestseller Lists

5. Accessing U8 Energy Ws 4 V3 Answer Key Free and Paid eBooks
 - U8 Energy Ws 4 V3 Answer Key Public Domain eBooks
 - U8 Energy Ws 4 V3 Answer Key eBook Subscription Services
 - U8 Energy Ws 4 V3 Answer Key Budget-Friendly Options
6. Navigating U8 Energy Ws 4 V3 Answer Key eBook Formats
 - ePub, PDF, MOBI, and More
 - U8 Energy Ws 4 V3 Answer Key Compatibility with Devices
 - U8 Energy Ws 4 V3 Answer Key Enhanced eBook Features
7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of U8 Energy Ws 4 V3 Answer Key
 - Highlighting and Note-Taking U8 Energy Ws 4 V3 Answer Key
 - Interactive Elements U8 Energy Ws 4 V3 Answer Key
8. Staying Engaged with U8 Energy Ws 4 V3 Answer Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers U8 Energy Ws 4 V3 Answer Key
9. Balancing eBooks and Physical Books U8 Energy Ws 4 V3 Answer Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection U8 Energy Ws 4 V3 Answer Key
10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
11. Cultivating a Reading Routine U8 Energy Ws 4 V3 Answer Key
 - Setting Reading Goals U8 Energy Ws 4 V3 Answer Key
 - Carving Out Dedicated Reading Time
12. Sourcing Reliable Information of U8 Energy Ws 4 V3 Answer Key
 - Fact-Checking eBook Content of U8 Energy Ws 4 V3 Answer Key
 - 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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