

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 if it is moving at 10 m/s?

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

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

$$K = \frac{1}{2}mv^2$$

or: $K = \frac{1}{2}mv^2$

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

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

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

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

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

6. A spring is stretched 10 cm. How much energy does it have?

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

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

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

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

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

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1. Understanding the eBook Energy Ws 2 V3 1 Key
 - The Rise of Digital Reading Energy Ws 2 V3 1 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Energy Ws 2 V3 1 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 Energy Ws 2 V3 1 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Energy Ws 2 V3 1 Key
 - Personalized Recommendations
 - Energy Ws 2 V3 1 Key User Reviews and Ratings
 - Energy Ws 2 V3 1 Key and Bestseller Lists
5. Accessing Energy Ws 2 V3 1 Key Free and Paid eBooks
 - Energy Ws 2 V3 1 Key Public Domain eBooks
 - Energy Ws 2 V3 1 Key eBook Subscription Services
 - Energy Ws 2 V3 1 Key Budget-Friendly Options
6. Navigating Energy Ws 2 V3 1 Key eBook Formats

- ePub, PDF, MOBI, and More
- Energy Ws 2 V3 1 Key Compatibility with Devices
- Energy Ws 2 V3 1 Key Enhanced eBook Features
- 7. Enhancing Your Reading Experience
 - Adjustable Fonts and Text Sizes of Energy Ws 2 V3 1 Key
 - Highlighting and Note-Taking Energy Ws 2 V3 1 Key
 - Interactive Elements Energy Ws 2 V3 1 Key
- 8. Staying Engaged with Energy Ws 2 V3 1 Key
 - Joining Online Reading Communities
 - Participating in Virtual Book Clubs
 - Following Authors and Publishers Energy Ws 2 V3 1 Key
- 9. Balancing eBooks and Physical Books Energy Ws 2 V3 1 Key
 - Benefits of a Digital Library
 - Creating a Diverse Reading Collection Energy Ws 2 V3 1 Key
- 10. Overcoming Reading Challenges
 - Dealing with Digital Eye Strain
 - Minimizing Distractions
 - Managing Screen Time
- 11. Cultivating a Reading Routine Energy Ws 2 V3 1 Key
 - Setting Reading Goals Energy Ws 2 V3 1 Key
 - Carving Out Dedicated Reading Time
- 12. Sourcing Reliable Information of Energy Ws 2 V3 1 Key
 - Fact-Checking eBook Content of Energy Ws 2 V3 1 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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