

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 20 m/s?

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(1000 \text{ kg})(20 \text{ m/s})^2 = 200,000 \text{ J}$$

2. How much energy does a 1 kg object have just before it starts to fall from a height of 10 m?

$$K = mgh = (1 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 98 \text{ J}$$

3. How much potential energy does a 1 kg object have if it is at the top of a 10 m high hill? (Assume the potential energy at the bottom of the hill is zero.)

$$U_g = mgh$$

or, the other

$$U_g = mgh = (1 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 98 \text{ J}$$

4. How much kinetic energy does a 1 kg object have if it is at the bottom of a 10 m high hill?

$$K = mgh = (1 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 98 \text{ J}$$

- or, the other way, if it is at the top of a 10 m high hill:

$$K = mgh = (1 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 98 \text{ J}$$

U_g is a conservative energy, so it is the same at the top and bottom of the hill.

5. A spring is stretched 10 cm. How much potential energy does it have? (Assume the spring constant is 100 N/m.)

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

6. How much energy does a 1 kg object have if it is at the top of a 10 m high hill?

$$U_g = mgh = (1 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 98 \text{ J}$$

7. How much energy does a 1 kg object have if it is at the bottom of a 10 m high hill?

or, the other way, if it is at the top of a 10 m high hill:

$$U_g = mgh = (1 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 98 \text{ J}$$

Modeling Instruction U8 Energy Worksheet 5 Key

S Marginson



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Table of Contents Modeling Instruction U8 Energy Worksheet 5 Key

1. Understanding the eBook Modeling Instruction U8 Energy Worksheet 5 Key
 - The Rise of Digital Reading Modeling Instruction U8 Energy Worksheet 5 Key
 - Advantages of eBooks Over Traditional Books
2. Identifying Modeling Instruction U8 Energy Worksheet 5 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 Modeling Instruction U8 Energy Worksheet 5 Key
 - User-Friendly Interface
4. Exploring eBook Recommendations from Modeling Instruction U8 Energy Worksheet 5 Key
 - Personalized Recommendations
 - Modeling Instruction U8 Energy Worksheet 5 Key User Reviews and Ratings
 - Modeling Instruction U8 Energy Worksheet 5 Key and Bestseller Lists
5. Accessing Modeling Instruction U8 Energy Worksheet 5 Key Free and Paid eBooks
 - Modeling Instruction U8 Energy Worksheet 5 Key Public Domain eBooks
 - Modeling Instruction U8 Energy Worksheet 5 Key eBook Subscription Services
 - Modeling Instruction U8 Energy Worksheet 5 Key Budget-Friendly Options

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