

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?

$$W = Fd \cos \theta$$

cos 0 = 1

$$W = (100 \text{ N})(10 \text{ m}) = 1000 \text{ J}$$

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?

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

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

6. A spring is stretched 10 cm. How much work is done by the spring?

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

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

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

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

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

Modeling Instruction U8 Energy Review

Tobias Bleicker



Modeling Instruction U8 Energy Review:

Enjoying the Song of Phrase: An Psychological Symphony within **Modeling Instruction U8 Energy Review**

In a world used by screens and the ceaseless chatter of quick transmission, the melodic splendor and emotional symphony produced by the written term often fade in to the backdrop, eclipsed by the constant sound and interruptions that permeate our lives. However, nestled within the pages of **Modeling Instruction U8 Energy Review** a stunning literary prize brimming with raw thoughts, lies an immersive symphony waiting to be embraced. Constructed by a masterful composer of language, this interesting masterpiece conducts viewers on a mental trip, skillfully unraveling the hidden melodies and profound impact resonating within each cautiously crafted phrase. Within the depths with this emotional analysis, we will examine the book is main harmonies, analyze its enthralling publishing style, and submit ourselves to the profound resonance that echoes in the depths of readers souls.

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