

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

We use what we've learned about work and energy to:

1. Find what kinetic energy must a 1000 kg car have to stop in 1000 meters.

$$\frac{\text{Kinetic Energy}}{2} = \frac{mv^2}{2} = 100 \text{ J} \Rightarrow$$

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

2. How much energy does a 100 kg object fall from rest off a building with height of 1000 meters?

$$K_{\text{object}} = \frac{mgh}{2} = 100,000 \text{ J}$$

3. How much work is required to push a 100 kg object up a 1000 m hill? (Assume the gravitational energy of the object, which is equal to the work done on it, is released when it falls.)

$$W_{\text{push}} = 100,000 \text{ J}$$

or, the other

$$K_{\text{object}} = 100,000 \text{ J} \Rightarrow W_{\text{push}} = 100,000 \text{ J}$$

4. How much work must be done to lift a 100 kg object?

$$W_{\text{lift}} = 100,000 \text{ J} \Rightarrow \text{potential energy} = 100,000 \text{ J}$$

- or, the other, if it comes down the hill:

$$W_{\text{lift}} = 100,000 \text{ J} \Rightarrow \text{potential energy} = 100,000 \text{ J}$$

$K_{\text{car}} = 100,000 \text{ J}$ when it reaches the very bottom of the hill.

5. A spring is stretched 1000 m. How much work is done on it?

$$W_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(100 \text{ N/m})(1000 \text{ m})^2 = 50,000,000 \text{ J}$$

6. How much work is done on a 100 kg object falling from 1000 m?

$$W_{\text{fall}} = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(20 \text{ m/s})^2 = 20,000 \text{ J}$$

7. How much work is done on a 100 kg object falling from 1000 m?

A 100 kg object falling from 1000 m has a potential energy of 100,000 J.

Modeling Instruction U8 Energy Ws 5 V3 Key

Xiaolong Qi



Modeling Instruction U8 Energy Ws 5 V3 Key:

Decoding **Modeling Instruction U8 Energy Ws 5 V3 Key**: Revealing the Captivating Potential of Verbal Expression

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