

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 moving 30 mph? (10 mph is 16 m/s)

$$K_{\text{car}} = \frac{1}{2}mv^2 = \frac{1}{2}(1000 \text{ kg})(16 \text{ m/s})^2 = 1.3 \times 10^5 \text{ J}$$

2. How much energy does a 100 kg object fall from rest off a building 100 m high? How much energy is left at the bottom?

$$K_{\text{object}} = \frac{mgh}{1000} = 1000 \text{ J}$$

3. How much power is a 1 kg physics book moving with velocity 10 m/s? How much potential energy at the top of the book? Express in the units reference level is chosen to be.

$$P_{\text{book}} = 10 \text{ J/s}$$

at the table

$$U_{\text{book}} = 10 \text{ J/s} = P_{\text{book}} = 10$$

- 4a. How much kinetic energy before the book

$$P_{\text{book}} = 10 \text{ J/s} = 10 \text{ J/s} = 10 \text{ J/s} = 10 \text{ J/s}$$

- 4b. How much kinetic energy after the book

$$P_{\text{book}} = 10 \text{ J/s} = 10 \text{ J/s} = 10 \text{ J/s} = 10 \text{ J/s}$$

$$P_{\text{book}} = 10 \text{ J/s} = 10 \text{ J/s} = 10 \text{ J/s} = 10 \text{ J/s}$$

5. A spring is stretched 10 cm. How much energy is stored in the spring?

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

6. How much energy is stored in a spring that is stretched 10 cm?

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

7. How much energy is stored in a spring that is stretched 10 cm?

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

U8 Energy Ws 4 V3 1 Problem 9 Answers

G Orfield



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