

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? (The speed limit in some locations)

$$K_{\text{car}} = \frac{1}{2}mv^2 = \frac{1}{2}(1000 \text{ kg})(13.4 \text{ m/s})^2 = 9.01 \times 10^4 \text{ J}$$

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

$$K_{\text{object}} = \frac{mgh}{1000} = 980 \text{ J}$$

3. How much power is a 1 kg physics book moving with velocity 10 m/s? (Equivalent to gravitational energy at the earth's surface, equivalent to the static reference level is a reference value.)

$$P_{\text{book}} = mv^2$$

or, the other

$$K_{\text{book}} = \frac{1}{2}mv^2 = 50 \text{ J}$$

- 4a. How much kinetic energy before the book?

$$P_{\text{book}} = \frac{1}{2}mv^2 = \frac{1}{2}(1 \text{ kg})(10 \text{ m/s})^2 = 50 \text{ J}$$

- or, the other, if kinetic energy the book

$$P_{\text{book}} = \frac{1}{2}mv^2 = \frac{1}{2}(1 \text{ kg})(10 \text{ m/s})^2 = 50 \text{ J}$$

K_{book} is a characteristic about the book's velocity vector.

- 4b. A bumper car at a fair has a spring constant of 1.0 N/m. How much energy is stored in the bumper?

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(1.0 \text{ N/m})(100 \text{ m})^2 = 5000 \text{ J}$$

5. How much energy is left in a 100 kg object after it has fallen 100 m? (Kinetic energy?)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(1.0 \text{ N/m})(100 \text{ m})^2 = 5000 \text{ J}$$

6. How much energy is stored in a 100 kg object after it has fallen 100 m?

A 100 kg object after 100 m has fallen 100 m. $U = mgh = (100 \text{ kg})(9.8 \text{ m/s}^2)(100 \text{ m}) = 9.8 \times 10^4 \text{ J}$

Modeling Instruction U8 Energy Review V3 0

L Cohen



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