

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)

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(1000 \text{ kg})(13.4 \text{ m/s})^2 = 9.0 \times 10^4 \text{ J}$$

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?)

$$K = mgh = \frac{1000 \text{ J}}{10} = 1000 \text{ J}$$

3. How much power is a 1 kg physics book moving with velocity that is equivalent to the potential energy of the book, which is equal to the static reference level in a house 10 ft high?

$$P = mv^2$$

or, also better

$$P = mgh = 10 \text{ J/s} = 10 \text{ W}$$

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

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(1 \text{ kg})(14 \text{ m/s})^2 = 100 \text{ J}$$

- or, also better, if I remember about the book:

$$K = 10 \text{ J/kg} (10 \text{ kg}) = 100 \text{ J}$$

K is a characteristic about the book, the very potential energy.

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

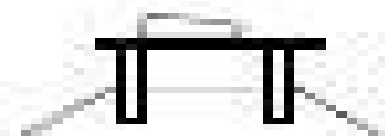
$$U = \frac{1}{2}kx^2 = \frac{1}{2}(1.0 \text{ N/m})(1000 \text{ m})^2 = 500,000 \text{ J}$$

5. How fast does a 10 kg physics book spring out from the ground? (Kinetic energy?)

$$U = \frac{1}{2}mv^2 \Rightarrow v = \sqrt{\frac{2U}{m}} = 45 \text{ m/s}$$

6. How much energy is stored when a railroad car spring is compressed 10 cm?

A 100 kg spring is pushed about 10 cm from its unbalanced 100 cm. $U = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})(0.1 \text{ m})^2 = 50 \text{ J}$



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