

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

We use the table below each time we calculate:

1. When we calculate kinetic energy, mass is **2000 kg** (assuming 2000 kg car) or **500 kg** (assuming 500 kg person)

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(2000 \text{ kg})(v)^2$$

$$K = \frac{1}{2}(500 \text{ kg})(v)^2 = \frac{1}{4}(2000 \text{ kg})(v)^2 \quad \text{or} \quad K = \frac{1}{4}mv^2 \quad \text{or} \quad K = \frac{1}{2}Mv^2$$

2. When we calculate energy stored in the **spring**, full compression of the spring will occur if the stored energy is **1000 J** (assuming 1000 J spring)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = 1000 \text{ J}$$

3. Kinematic given: If a physics student jumping out of the air, the **maximum** (maximum) and **potential** energy at the **maximum** height is the same as the **initial** kinetic energy at the **initial** height.

$$K_i = U_{\text{max}}$$

or the other

$$U_{\text{spring}} = U_{\text{max}} = K_i = U_{\text{max}}$$

- 4a. How much **kinetic energy** before the crash

$$K_i = \frac{1}{2}(2000 \text{ kg})(v)^2 = \frac{1}{2}(2000 \text{ kg})(20 \text{ m/s})^2$$

- or the **spring**, if **kinetic energy** after the crash

$$K_f = \frac{1}{2}(2000 \text{ kg})(20 \text{ m/s})^2 = 400000 \text{ J} = 400 \text{ kJ}$$

$$K_f = 400000 \text{ J} = 400 \text{ kJ} \quad \text{or} \quad K_f = 400 \text{ kJ} \quad \text{or} \quad K_f = 400 \text{ kJ}$$

- 4b. A **spring** total **elasticity** (potential) and **kinetic** energy of **1000 J** (assuming 1000 J spring) is **1000 J** (assuming 1000 J spring)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(2000 \text{ kg})(20 \text{ m/s})^2 = 400000 \text{ J}$$

5. When there is **no** **potential energy** (assuming 1000 J spring) **1000 J** (assuming 1000 J spring)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(2000 \text{ kg})(20 \text{ m/s})^2 = 400000 \text{ J}$$

6. When **total energy** is **1000 J** (assuming 1000 J spring) **1000 J** (assuming 1000 J spring)

$$U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(2000 \text{ kg})(20 \text{ m/s})^2 = 400000 \text{ J} \quad \text{or} \quad U_{\text{spring}} = \frac{1}{2}kx^2 = \frac{1}{2}(2000 \text{ kg})(20 \text{ m/s})^2 = 400000 \text{ J}$$

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RS Peters



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Contributions from Institute for Nonlinear Science, University of California, San Diego ,1987 *Journal of Guidance and Control* ,1980 The Environment Index ,1973 *Physics Briefs* ,1981 Law Books, 1876-1981 R.R. Bowker Company,1981 **Bibliographic Guide to Conference Publications** New York Public Library. Research Libraries,1976 Vols for 1975 include publications cataloged by the Research Libraries of the New York Public Library with additional entries from the Library of Congress MARC tapes

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