

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 if it is moving 10 m/s? The right hand of the table is empty because

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(1000\text{ kg})(10\text{ m/s})^2 = 50,000\text{ J}$$

2. How much energy does a 1 kg object have just before it starts falling from a height of 10 m? (How much energy is it still having?)

$$K = mgh = \frac{1000\text{ J}}{100\text{ kg}} = 1000\text{ J}$$

3. How much work is done by a 1000 kg car moving across a level at 10 m/s? (Remember that gravitational energy at the earth's level is zero.) Is the work done on it or by it? (Remember that)

$$W = \Delta K = 0\text{ J}$$

or, the table

$$W_{\text{done on}} = -W_{\text{done by}} = 0\text{ J}$$

4. How much work is done by a 1000 kg car falling 10 m?

$$W = \Delta K = \frac{1}{2}mv^2 = \frac{1}{2}(1000\text{ kg})(10\text{ m/s})^2 = 50,000\text{ J}$$

- or, the table. If it is moving down the table

$$W = \Delta K = \frac{1}{2}mv^2 = \frac{1}{2}(1000\text{ kg})(10\text{ m/s})^2 = 50,000\text{ J}$$

W is a transfer of energy from the car to the earth.

5. A spring is stretched 10 cm. How much work is done by the spring? (Remember that the work done by a spring is $\frac{1}{2}kx^2$.)

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

6. How much work is done by a spring that is stretched 10 cm? (Remember that the work done by a spring is $\frac{1}{2}kx^2$.)

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

7. How much work is done by a spring that is stretched 10 cm? (Remember that the work done by a spring is $\frac{1}{2}kx^2$.)

A 100 N spring is stretched 10 cm. How much work is done by the spring? $W = \frac{1}{2}kx^2 = \frac{1}{2}(100\text{ N/m})(0.1\text{ m})^2 = 5\text{ J}$

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