

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 sign has a 1000 kg mass.

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

2. How much energy does a 100 kg object have just before it starts moving with speed 10 m/s? It is at rest before it starts moving.

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5,000 \text{ J}$$

3. How much work is done by a 1000 N force moving an object 10 m? The object starts at rest and ends at 10 m/s. The force is constant and in the same direction as the motion.

$$W = Fd = 10,000 \text{ J}$$

or: the table

$$W = \Delta K = \frac{1}{2}mv^2 - 0 = 5,000 \text{ J}$$

4. How much work is done by a 1000 N force moving an object 10 m?

$$W = Fd = 10,000 \text{ J}$$

- or: the table, if it is constant and in the same direction as the motion.

$$W = Fd = 10,000 \text{ J}$$

or: the table, if it is constant and in the same direction as the motion.

5. A spring is compressed 10 cm. How much work is done by the spring? The spring constant is 1000 N/m.

$$W = \frac{1}{2}kx^2 = \frac{1}{2}(1000 \text{ N/m})(0.1 \text{ m})^2 = 50 \text{ J}$$

6. How much work is done by a 1000 N force moving an object 10 m? The force is constant and in the same direction as the motion.

$$W = Fd = 10,000 \text{ J}$$

7. How much work is done by a 1000 N force moving an object 10 m? The force is constant and in the same direction as the motion.

$$W = Fd = 10,000 \text{ J}$$

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**Massachusetts Institute of
Technology. Energy Laboratory, Walter
C. Labys**



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