

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 at 10 m/s?

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

2. How much energy does a 100 kg object have just before it starts to fall from a height of 10 m?

$$U = mgh = (100 \text{ kg})(9.8 \text{ m/s}^2)(10 \text{ m}) = 9800 \text{ J}$$

3. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

$$W = Fd \cos \theta$$

cos 0 = 1

$$W = (100 \text{ N})(10 \text{ m}) = 1000 \text{ J}$$

4. How much kinetic energy does a 100 kg object have if it is moving at 10 m/s?

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5000 \text{ J}$$

5. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0 = 1000 \text{ J}$$

$$K = \frac{1}{2}mv^2 = \frac{1}{2}(100 \text{ kg})(10 \text{ m/s})^2 = 5000 \text{ J}$$

6. A spring is stretched 10 cm. How much work is done by the spring?

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

7. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0 = 1000 \text{ J}$$

8. How much work is done by a 100 N force moving an object 10 m in the direction of the force?

$$W = Fd \cos \theta = (100 \text{ N})(10 \text{ m}) \cos 0 = 1000 \text{ J}$$

Modeling Instruction Worksheet U8 Energy Ws 5 V3 1

L Cohen



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