

Conservation of Energy
Situations.

$$E_B = E_A$$

$$\Delta E = 0$$

Law of Conservation of Energy: Energy before = Energy after

OR change of energy = zero. (Same for all conservation laws: mass, momentum)

Situation 1: An object is dropped. How fast is it going just before it hits the ground?

$$E_B = E_P = mgh$$

$$E_A = E_K = \frac{1}{2}mv^2$$

$$E_B = E_A$$

$$mgh = \frac{1}{2}mv^2 \quad m \text{ is cancel.}$$

$$gh = \frac{v^2}{2}$$

$$\sqrt{2gh} = v \leftarrow$$

Situation 2: An object thrown into the air, how high does it go?

$$E_B = \frac{1}{2}mv^2 \quad E_A = mgh$$

$$\frac{1}{2}mv^2 = mgh$$

$$\frac{v^2}{2} = gh \quad h = \frac{v^2}{2g}$$

Situation 3: A moving object compresses a spring. How far did the spring compress?

$$E_B = \frac{1}{2}mv^2 \quad E_A = \frac{1}{2}kx^2$$

$$\frac{1}{2}mv^2 = \frac{1}{2}kx^2$$

$$mv^2 = kx^2$$

$$\sqrt{\frac{mv^2}{k}} = x$$

Situation 4: An object in the air falls. How fast is it going part way down?

$$mgh_1 = mgh_2 + \frac{1}{2}mv^2$$

solve for v .

h_1 is original height.

h_2 is second height.

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Karin Nielsen-Saines



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