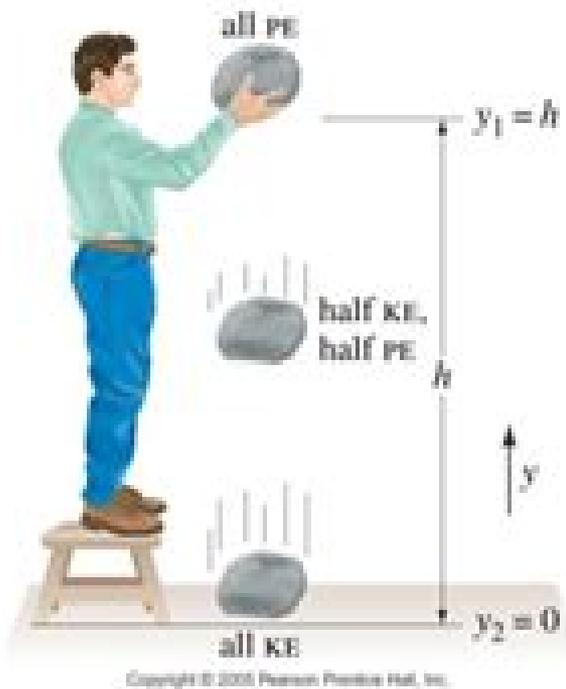


6-7 Problem Solving Using Conservation of Mechanical Energy



In the image on the left, the total mechanical energy is:

$$E = KE + PE = \frac{1}{2}mv^2 + mgy$$

$$v = 0$$

$y = 3.0 \text{ m}$

PE

The energy buckets (right) show how the energy moves from all potential to all kinetic.

$$v = 6.3 \text{ m/s}$$

$y = 1.0 \text{ m}$

KE
PE

$$v = 7.7 \text{ m/s}$$

$y = 0$

KE

Mechanical Energy Problems With Solution

David Kirk



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