

Work-Energy Calculations

Study Lesson 2 of the Work, Energy and Power chapter at The Physics Classroom:
<http://www.physicsclassroom.com/Class/energy/u5l2bc.html>

For the following questions, begin with the work-energy equation, cancel terms, substitute and solve.

1. A glider is gliding through the air at a height of 416 meters with a speed of 45.2 m/s. The glider dives to a height of 278 meters. Determine the glider's new speed.

$$KE_i + PE_i + W_{ext} = KE_f + PE_f$$



2. A box with mass m is sliding along on a friction-free surface at 9.87 m/s at a height of 1.81 m. It travels down the hill and then up another hill.
 a. Find the speed at the bottom of the hill.

$$KE_i + PE_i + W_{ext} = KE_f + PE_f$$

- b. Find the maximum vertical height to which the box will rise on the opposite hill.

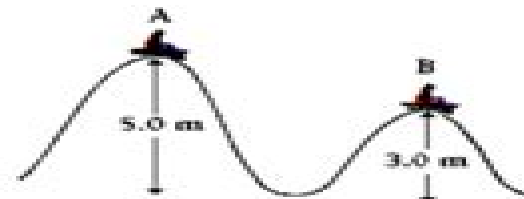
$$KE_i + PE_i + W_{ext} = KE_f + PE_f$$

3. A 1423-kg car is moving along a level highway with a speed of 26.4 m/s. The driver takes the foot off the accelerator and the car experiences a retarding force of 901-N over a distance of 106 m. Determine the speed of the car after traveling this distance.

$$KE_i + PE_i + W_{ext} = KE_f + PE_f$$

4. A sledder starts from rest atop a 5.0-m high hill (A). She sleds to the bottom and up to the top of the adjacent 3.0-m high hill. How fast is the sledder going at point B? Ignore friction.

$$KE_i + PE_i + W_{ext} = KE_f + PE_f$$



Physics Classroom Work Energy Calculations Answer Key

N Colangelo



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Resources in Education ,1984-10

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