## Answer on Question #46213, Physics, Mechanics | Kinematics | Dynamics

An object weighing 900 N is placed at an height of 3 meters. What is its potential energy in joules?

Potential energy of the object in gravitational field is:  $E_p = mgh$ Weight of an object is P = mg. Then:  $E_p = Ph = 900N \cdot 3m = 2700J = 2.7kJ$ 

Answer: potential energy of an object is  $E_p = 2.7 kJ$ 

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