

# POTENTIAL AND KINETIC ENERGY

Name \_\_\_\_\_

Potential energy is stored energy due to position. Kinetic energy is energy that depends on mass and velocity (movement).

Potential Energy = Weight x Height (P.E. =  $w \times h$ )

Kinetic Energy =  $\frac{1}{2}$  Mass x Velocity<sup>2</sup> (K.E. =  $\frac{1}{2}mv^2$ )

The units used are:

Energy = joules

Weight = newtons

Height = meters

Mass = kilograms

Velocity = m/s

For a closed system, the sum of the potential energy and the kinetic energy is a constant. As the potential energy decreases, the kinetic energy increases.

Solve the following problems.

1. What is the potential energy of a rock that weighs 100 newtons that is sitting on top of a hill 300 meters high?

Answer: \_\_\_\_\_

2. What is the kinetic energy of a bicycle with a mass of 14 kg traveling at a velocity of 3 m/s?

Answer: \_\_\_\_\_

3. A flower pot weighing 3 newtons is sitting on a windowsill 30 meters from the ground. Is the energy of the flower pot potential or kinetic? How many joules is this?

Answers: \_\_\_\_\_

4. When the flower pot in Problem 3 is only 10 meters from the ground, what is its potential energy?

Answer: \_\_\_\_\_

5. How much of the total energy in Problems 3 and 4 has been transformed to kinetic energy?

Answer: \_\_\_\_\_

6. A 1200 kg automobile is traveling at a velocity of 100 m/s. Is its energy potential or kinetic? How much energy does it possess?

Answers: \_\_\_\_\_

# Physical Science If8767 61 Answers

**Michael Brown**



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