

P.2.1&2 Mechanical Energy KEY

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Mechanical Energy

What does the mechanical energy of a system include?

The sum of the potential and Kinetic energy in the mechanical system.

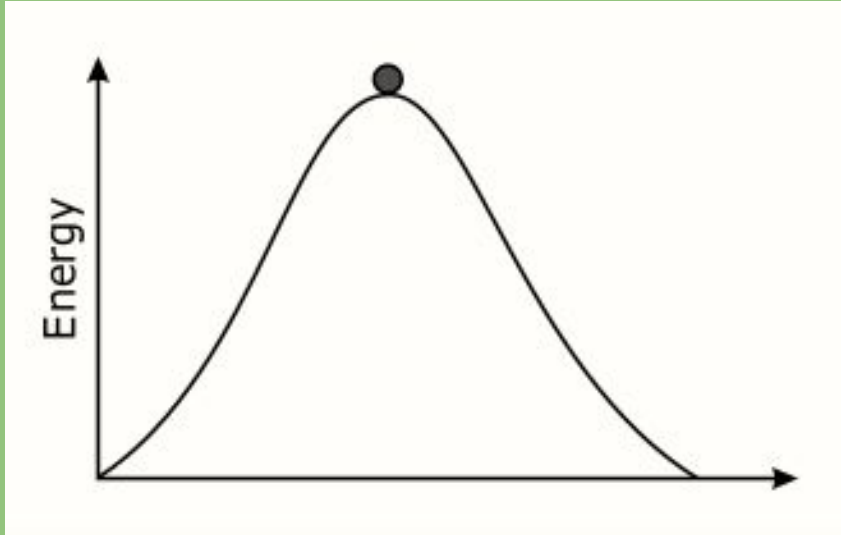
Types of Mechanical Energy

The 2 types of mechanical energy is potential energy and kinetic energy.

Potential Energy

Potential energy is stored energy or energy at rest.

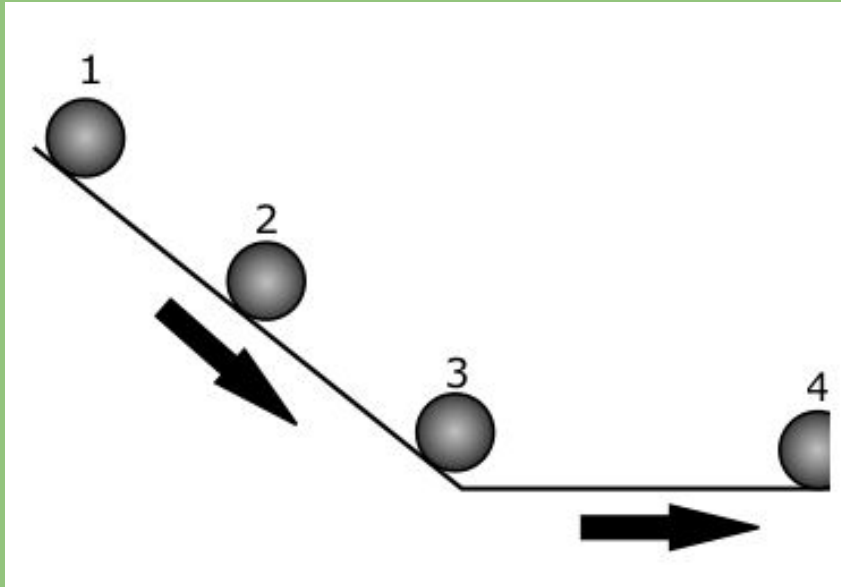
The ball at the top of the hill has potential energy.



Kinetic Energy

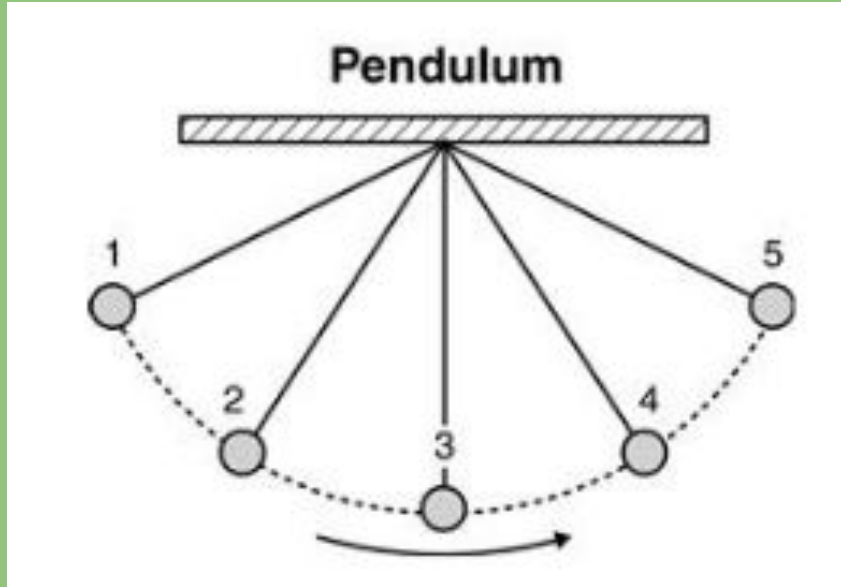
Kinetic energy is the energy of an object in motion.

The ball is in motion rolling down the hill.

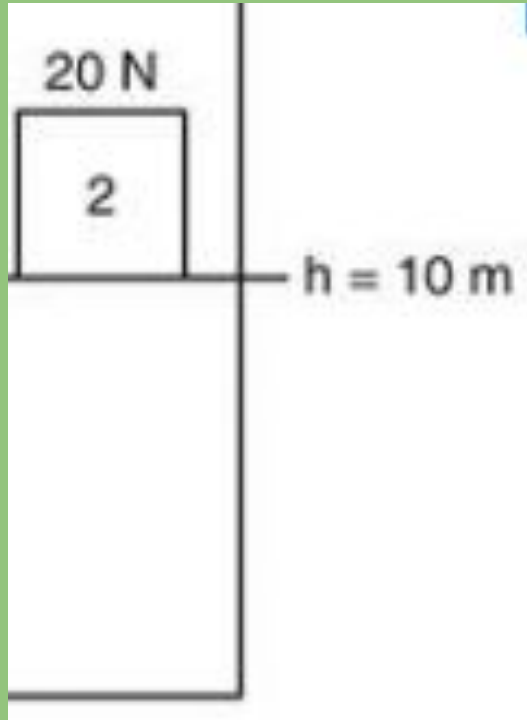


Potential vs Kinetic

1. Ball 1 - Potential
2. Ball 3 - Kinetic



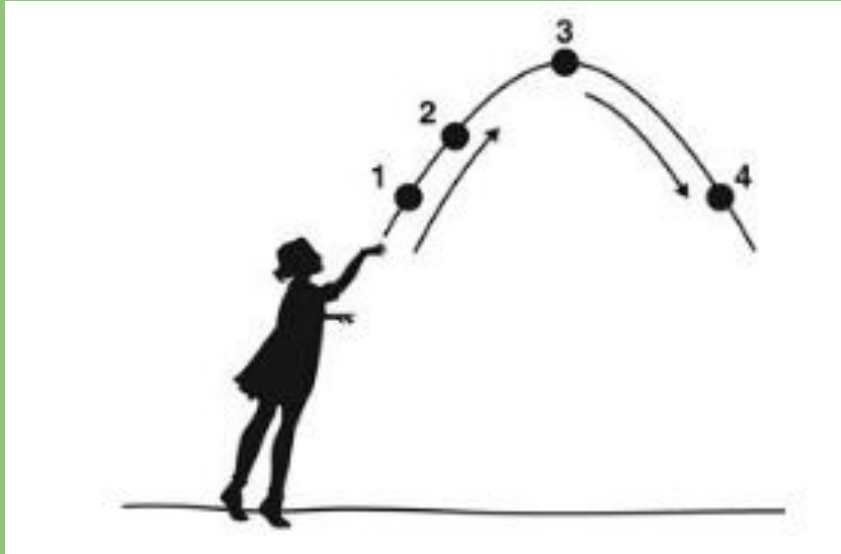
Potential vs Kinetic



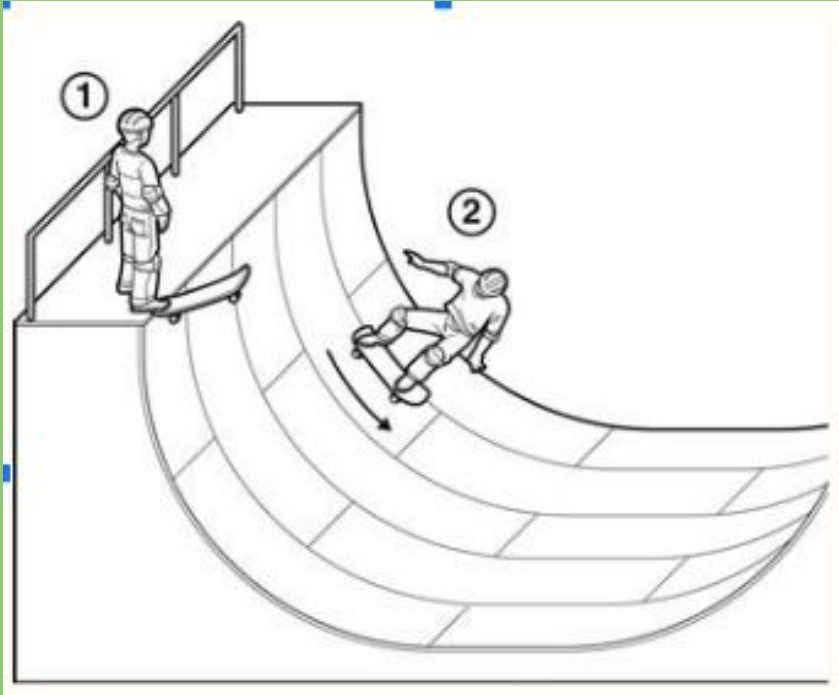
1. Potential

Potential vs Kinetic

1. Kinetic



Potential vs Kinetic



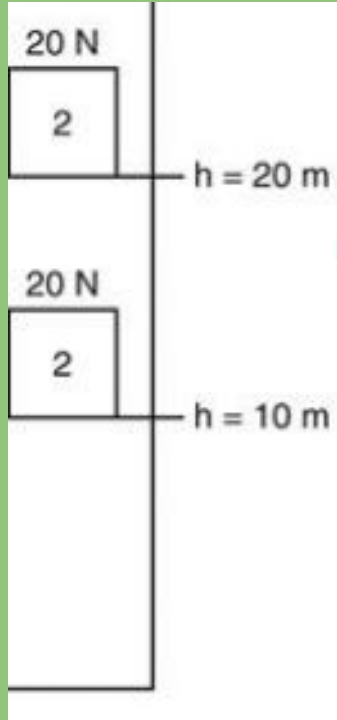
Skater

1. Potential
2. Kinetic

How to Measure Potential Energy

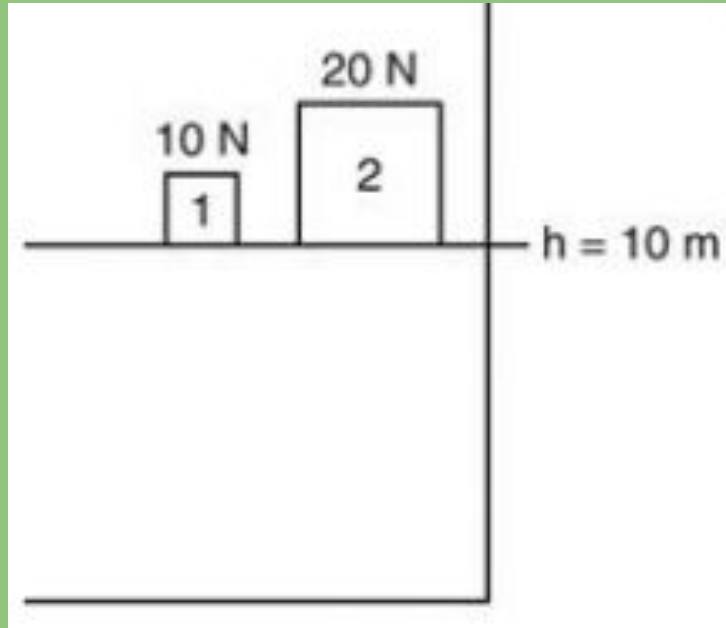
To measure the potential energy of an object, you multiply the height of the object above the ground by the mass of the object.

Which has more potential energy?



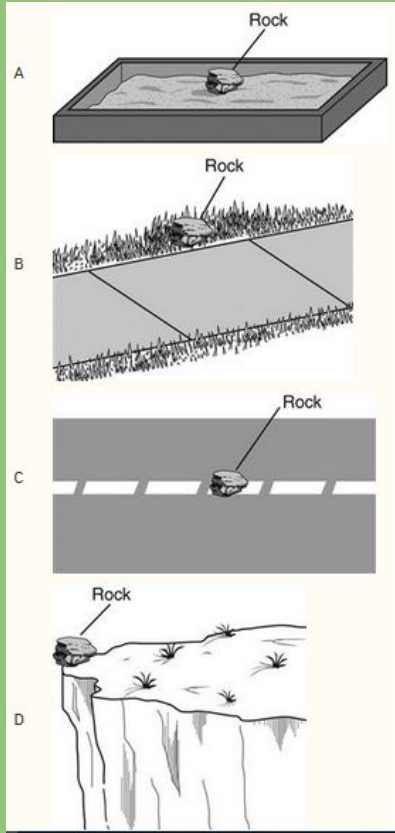
The box on the top shelf because it is higher.

Which has more potential energy?



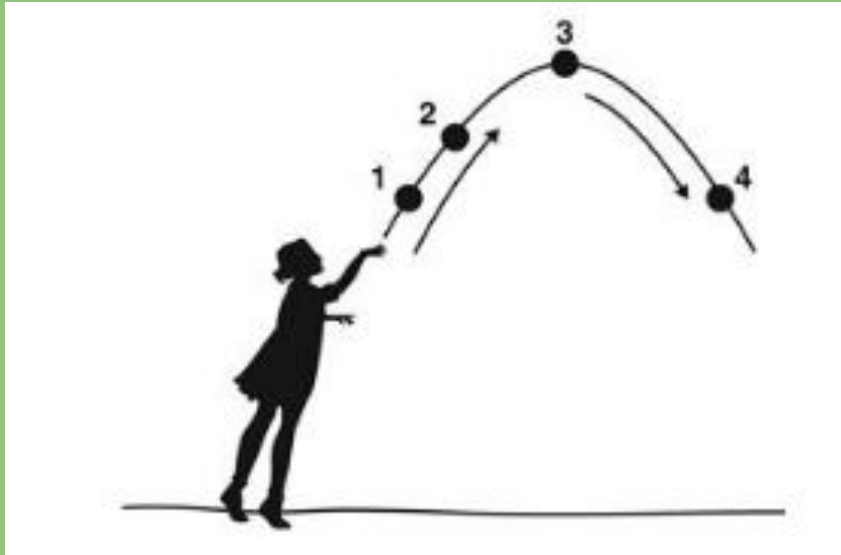
Box 2 it has more force.

Which has more potential energy?



Position 4 it is higher off the ground.

Which ball position more potential energy?



Position 3 because
it is the highest
position.

THE END

