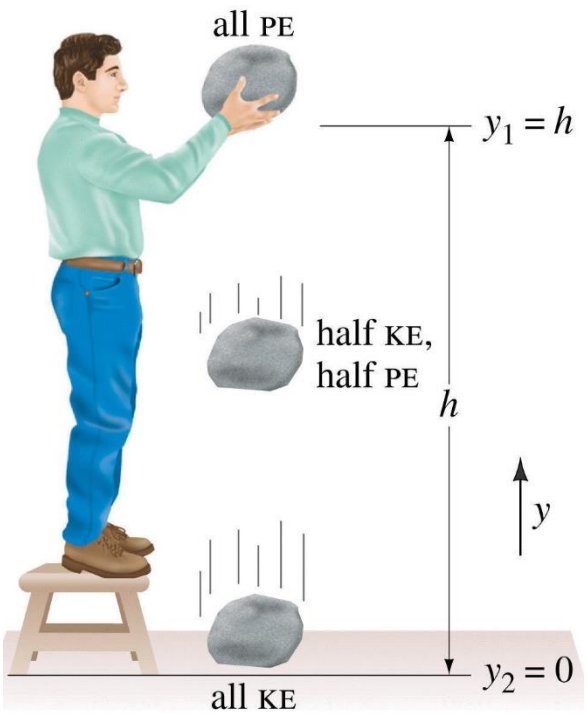
Problem and Solution

An 800kg ball is pulled up a .2 meter high slope. Calculate its potential energy at the top.

Given:
h=0.2 m
m=0.8kg
g=10

U=mgh
U=0.8(10)(.2)
U=1.6 J

The Potential Energy of the ball is 1.6 J



http://alpcentauri.info/electric_potential_energy_and_po.html

Resources

"Potential Energy." Potential Energy. The Physics Classroom. Web. 24 Feb. 2016

"What Is Potential Energy (U)? - Definition from WhatIs.com." *WhatIs.com*. Web. 24 Feb. 2016.

"Examples of Potential Energy." *YourDictionary*. Web. 24 Feb. 2016.

Potential Energy

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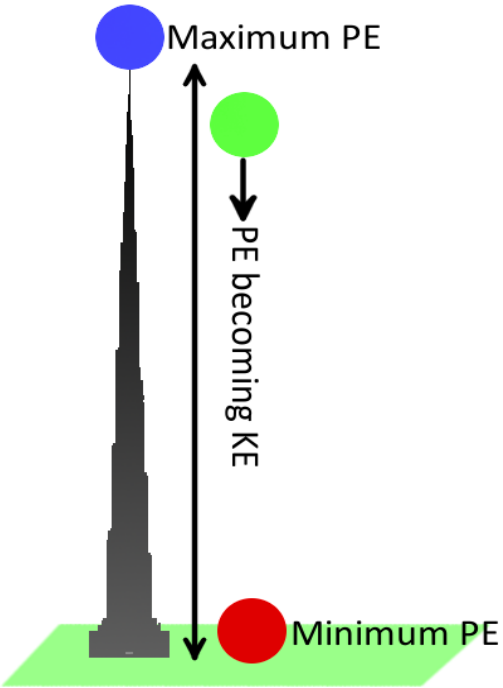
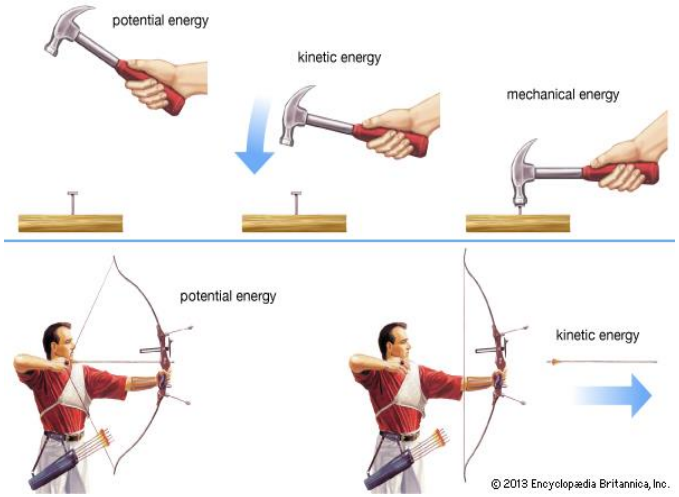


https://learn.sparkfun.com/tutorials/what-is-electricity/electric-potential-energy



http://kids.britannica.com/elementary/art/print?id=180888&articleTypeId=0

Definition/Explanation

Potential energy is the energy stored by an object due to its position. The standard unit for measuring potential energy is the joule, which is abbreviated as "J". One type of potential energy comes from the Earth's gravity. This is called gravitational potential energy. Gravitational potential energy is the energy stored in an object based on its height and mass. Other Types of Potential Energy are Elastic, Electric, Nuclear, and Chemical.

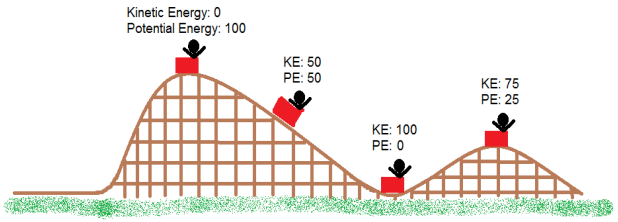
Applications

- Water behind a dam
- A stretched rubber band
- Car parked on top of a hill
- An unopened carbonated drink

http://study.com/academy/lesson/gravitational-potential-energy-definition-formula-examples.html

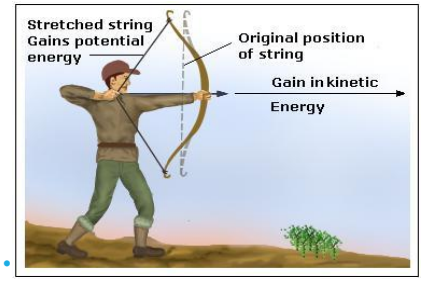
Uses

- Roller Coasters



https://scienceisntscary.wordpress.com/tag/potential-energy/

- When nuclear particles are destroyed, their potential energy that was stored inside them is released and converted into kenetic energy which can be useful to us as electricity and heat.
- Bow and arrow: When the archer draws back the arrow, some of his energy is changed into potential energy so that when he releases the string, the arrow shoots forward



- the position of the wrecking ball is used to tear down buildings

http://takshopproblem.pbworks.com/w/page/24711908/Changing%20Forms%20of%20Energy